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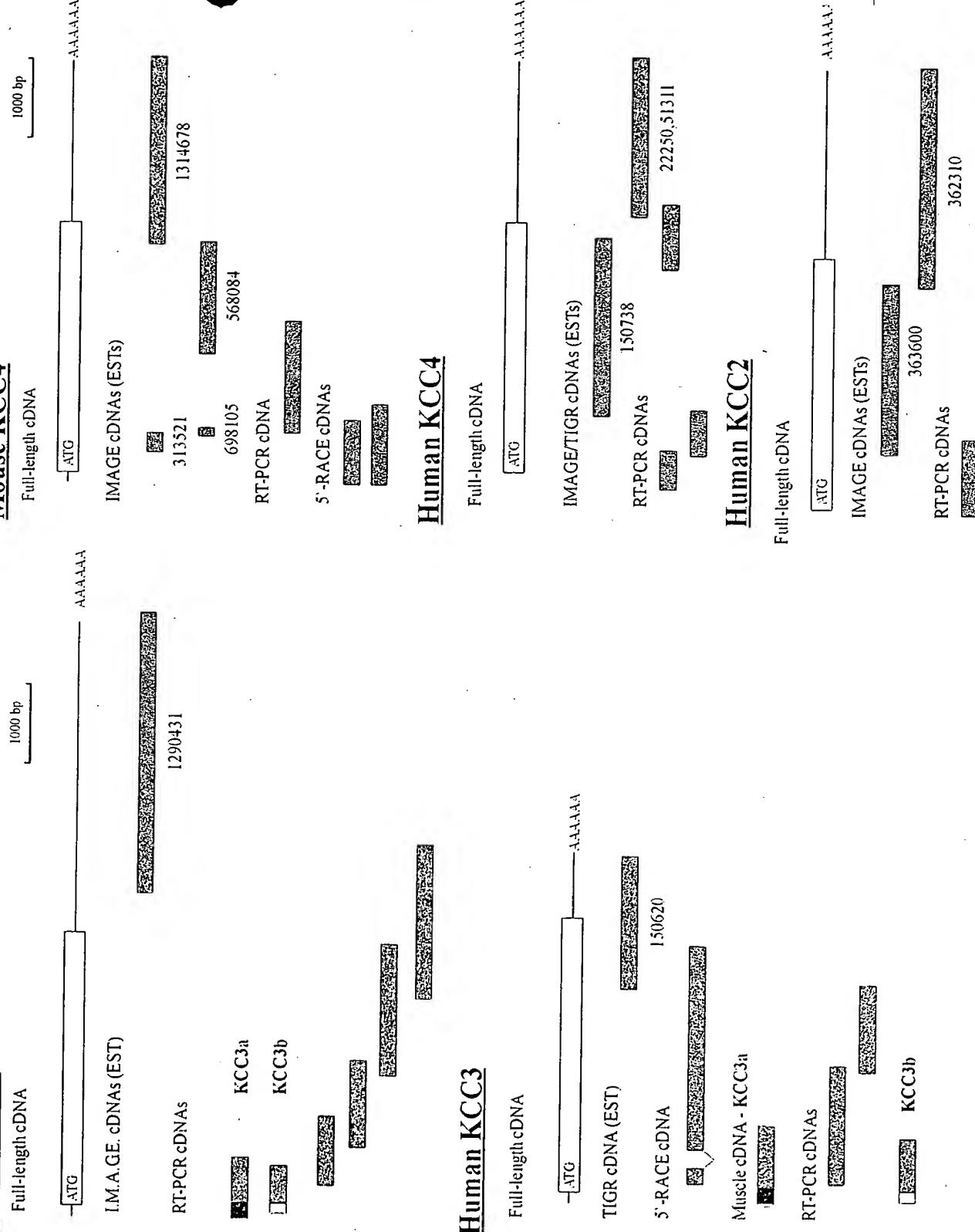
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Title: Purified and Isolated Potassium-Chloride Cotransporter Nucleic Acids and Polypeptides and Therapeutic and Screening Methods Using Same
Applicant(s): Mount et al. [REDACTED]
Attorney Docket No.: 1242/26/2

Mouse KCC4

Figure 1



A) $hKCC3$

Figure 2

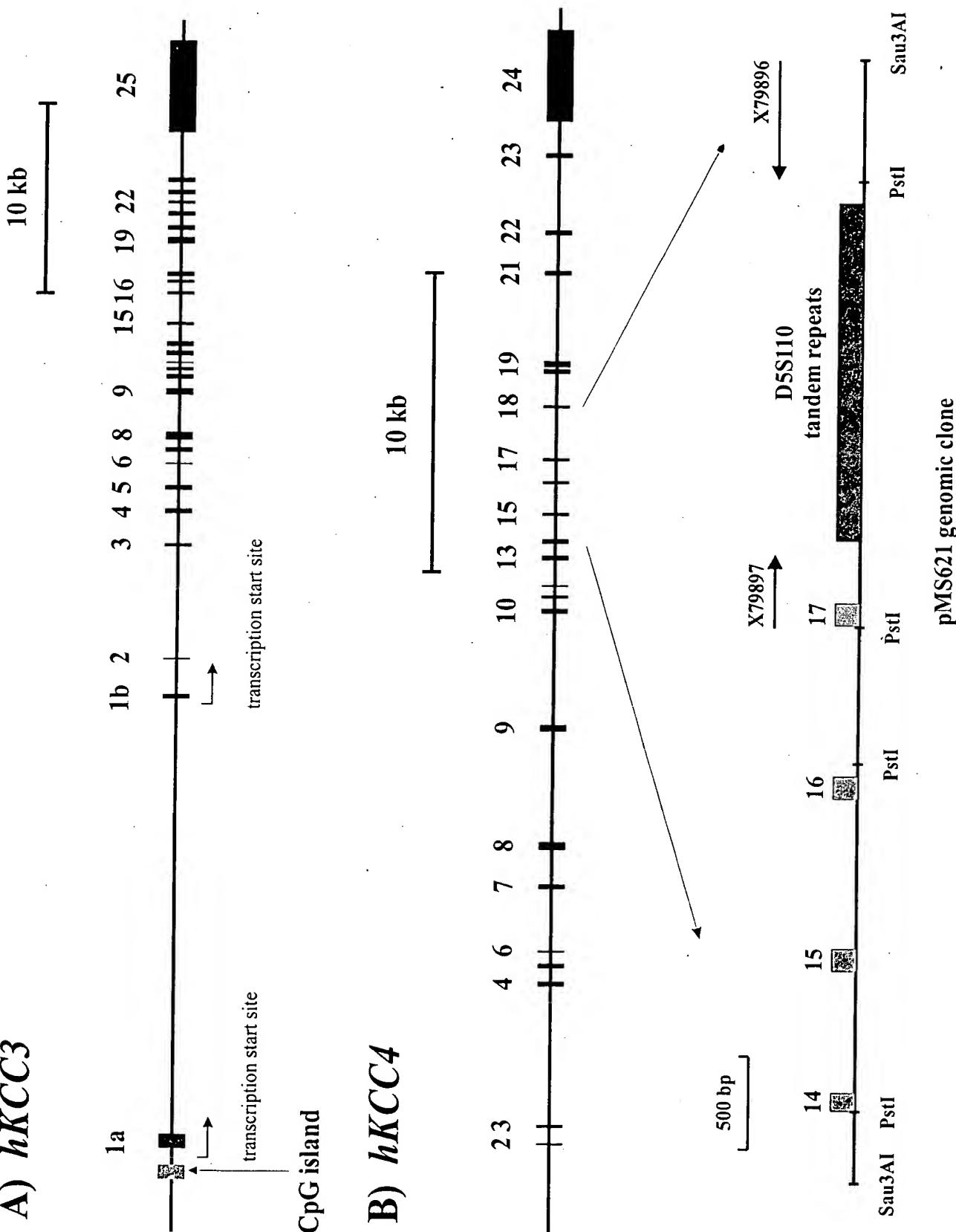


Figure 3

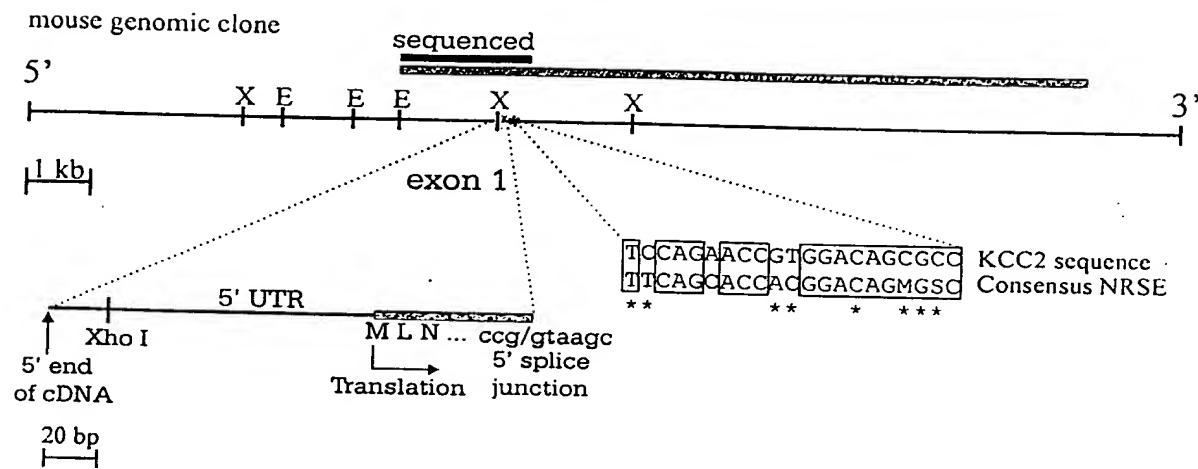


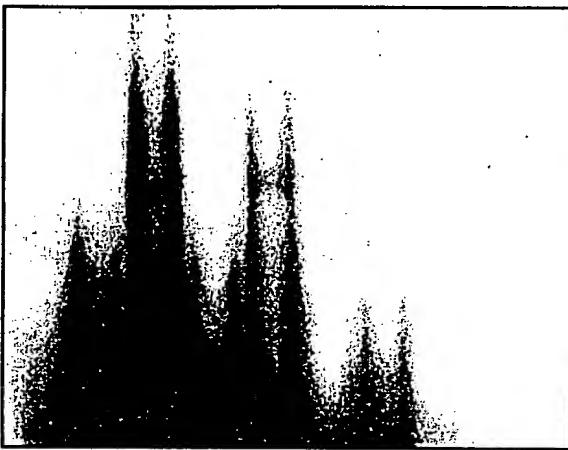
Figure 4

A

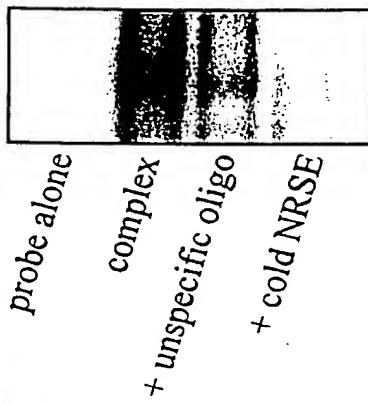
probe dilution 1:1 1:4 1:20 1:100
nuclear proteins - + - + - + - +

complex ➤

free probe
➤



B



TOP 40 * 2000000

Figure 5

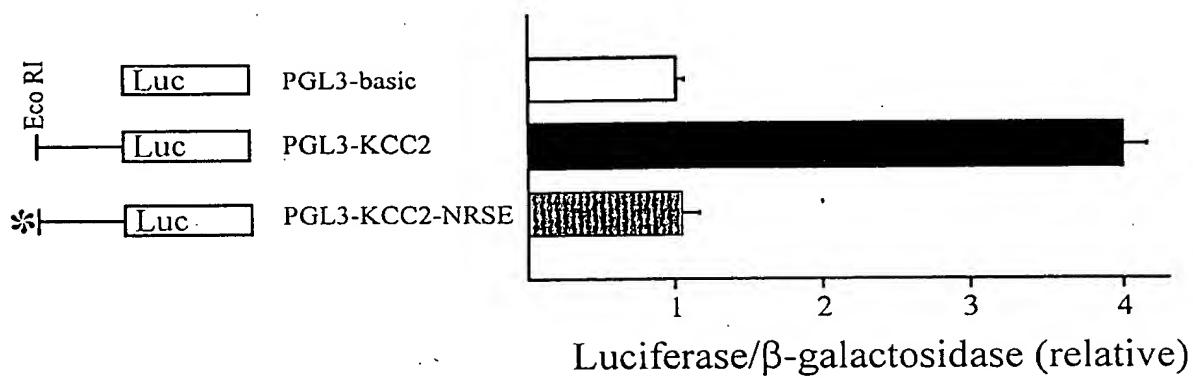


Figure 6

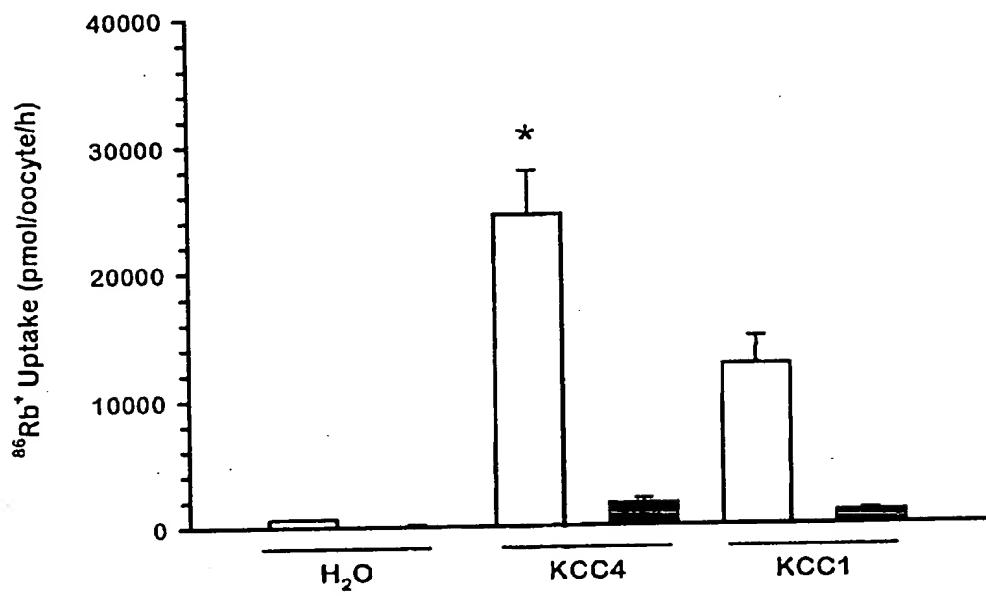


Figure 7

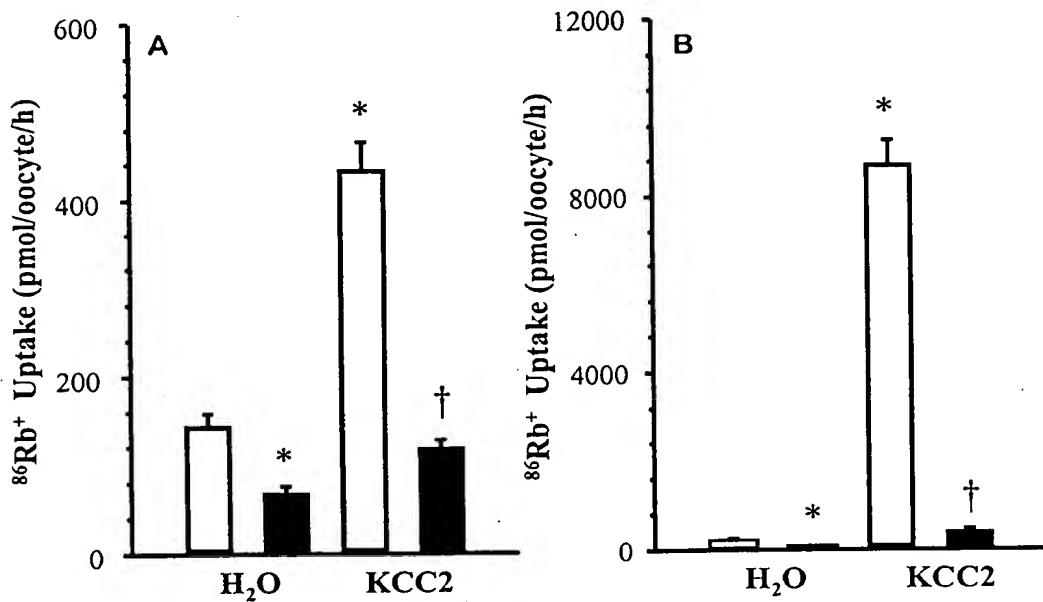
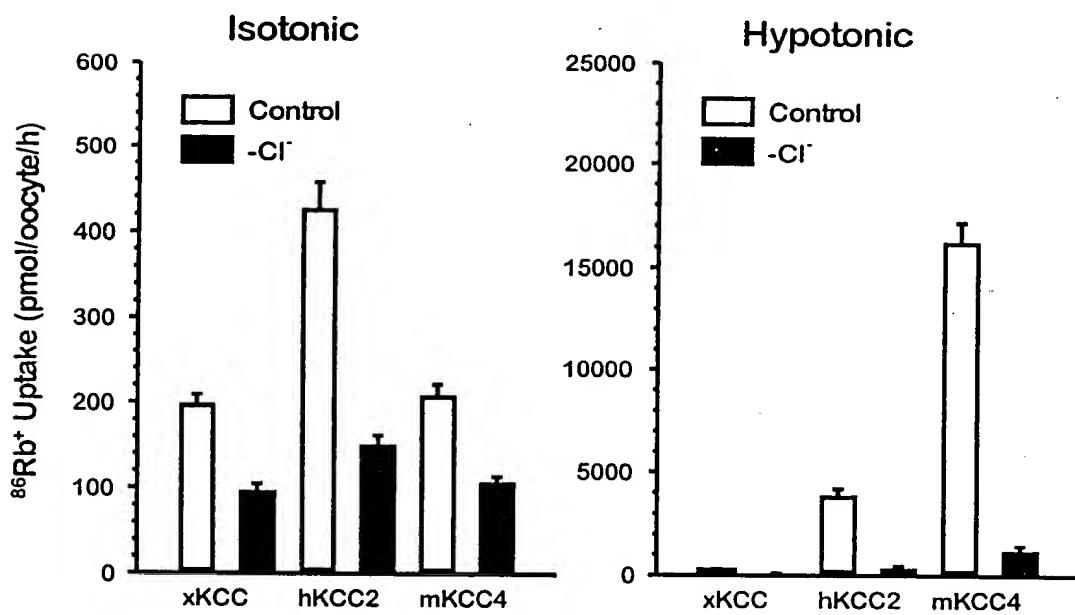


Figure 8



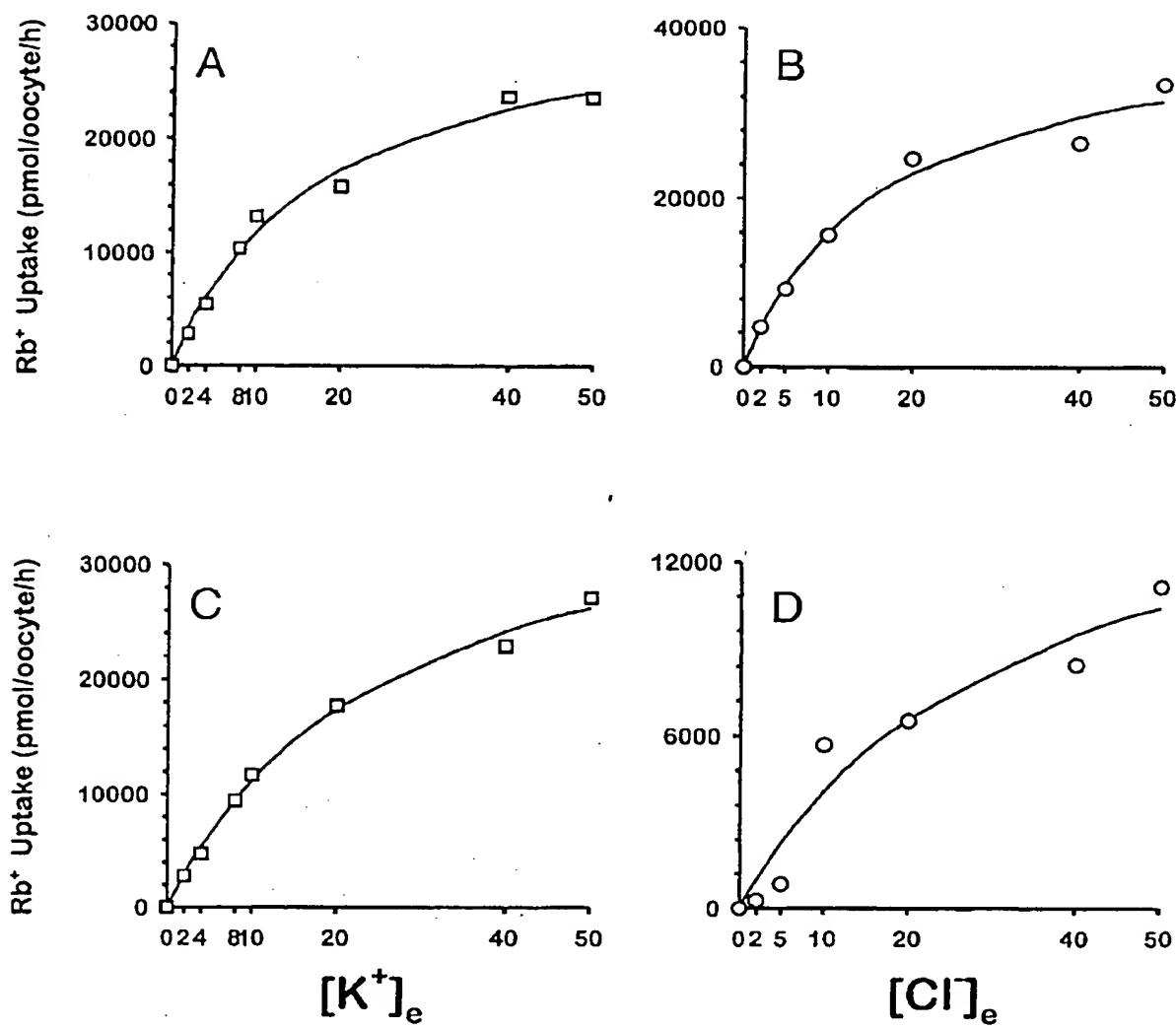


Figure 9

Figure 10

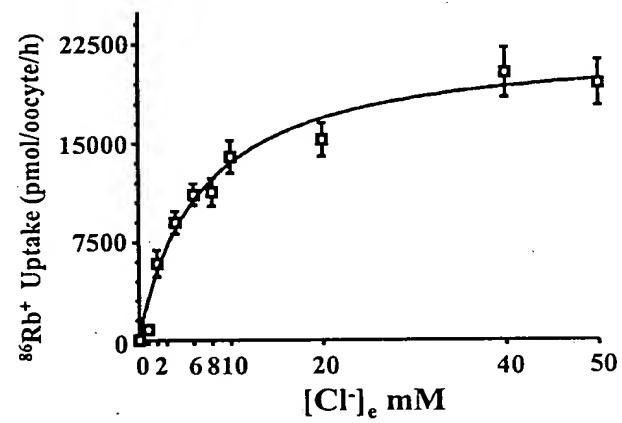
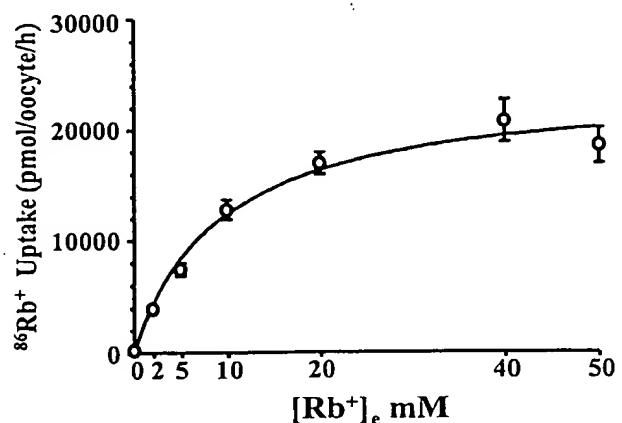


Figure 11

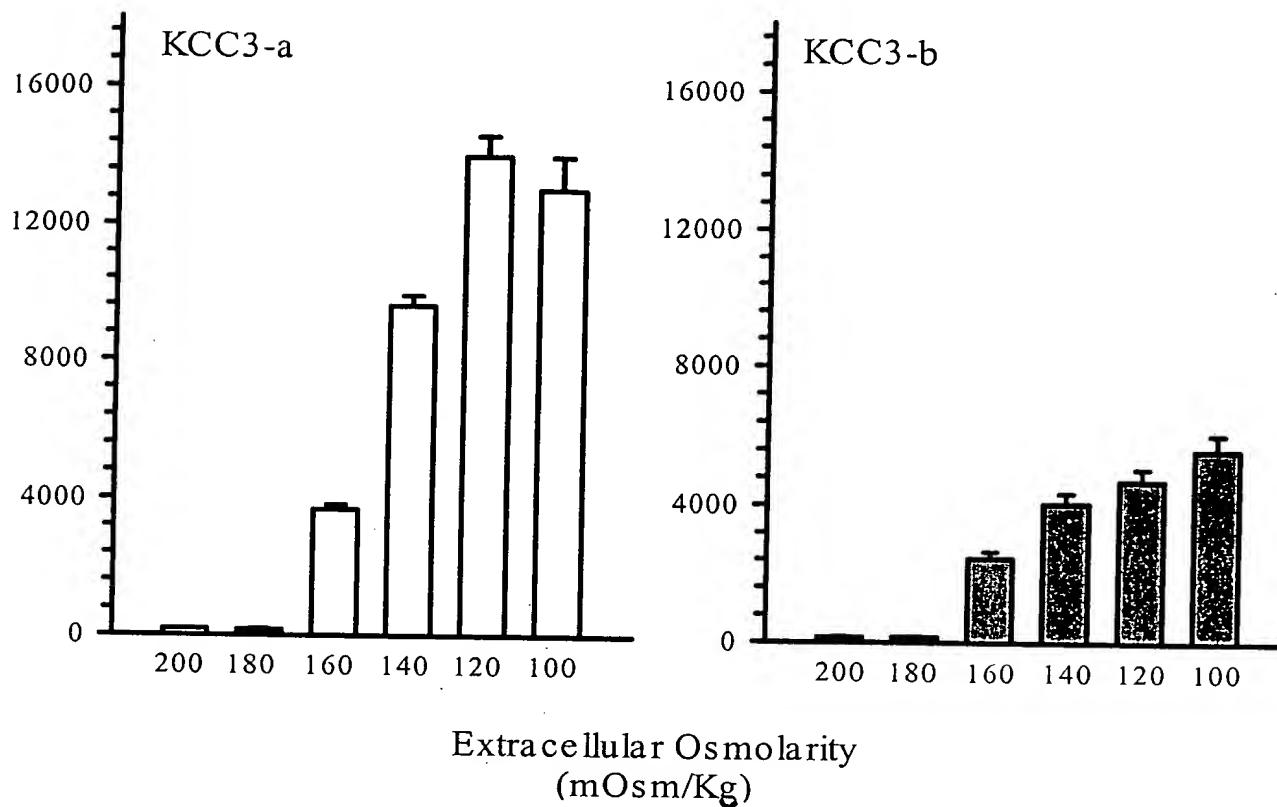


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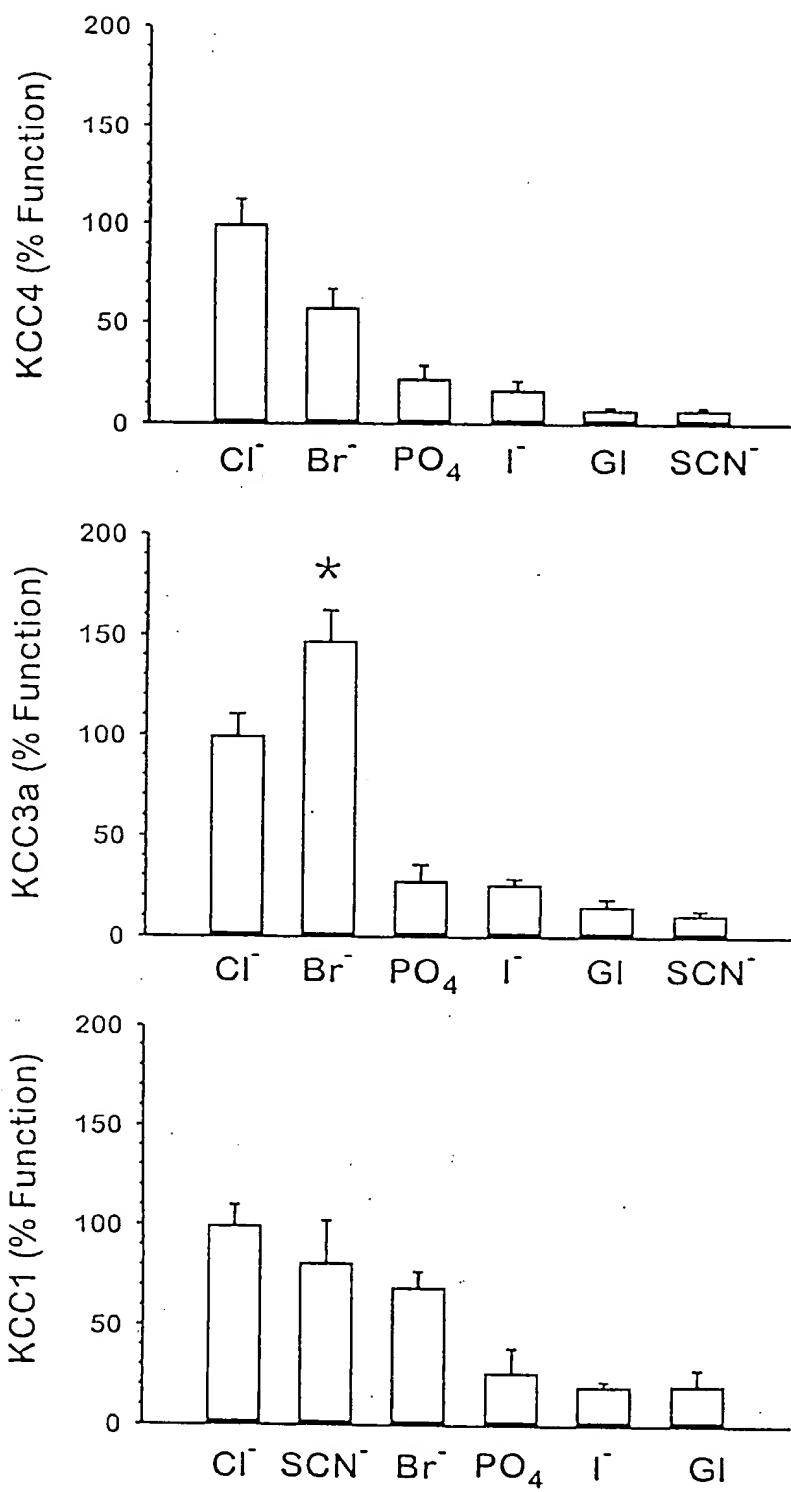
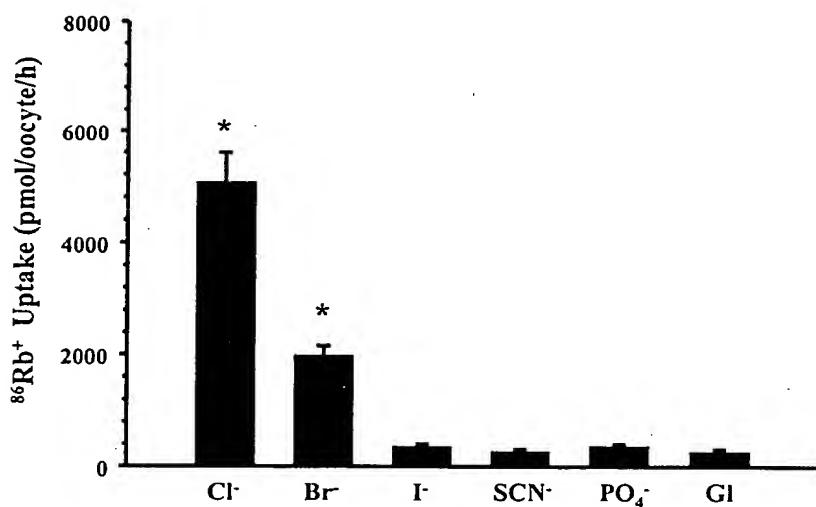


Figure 13



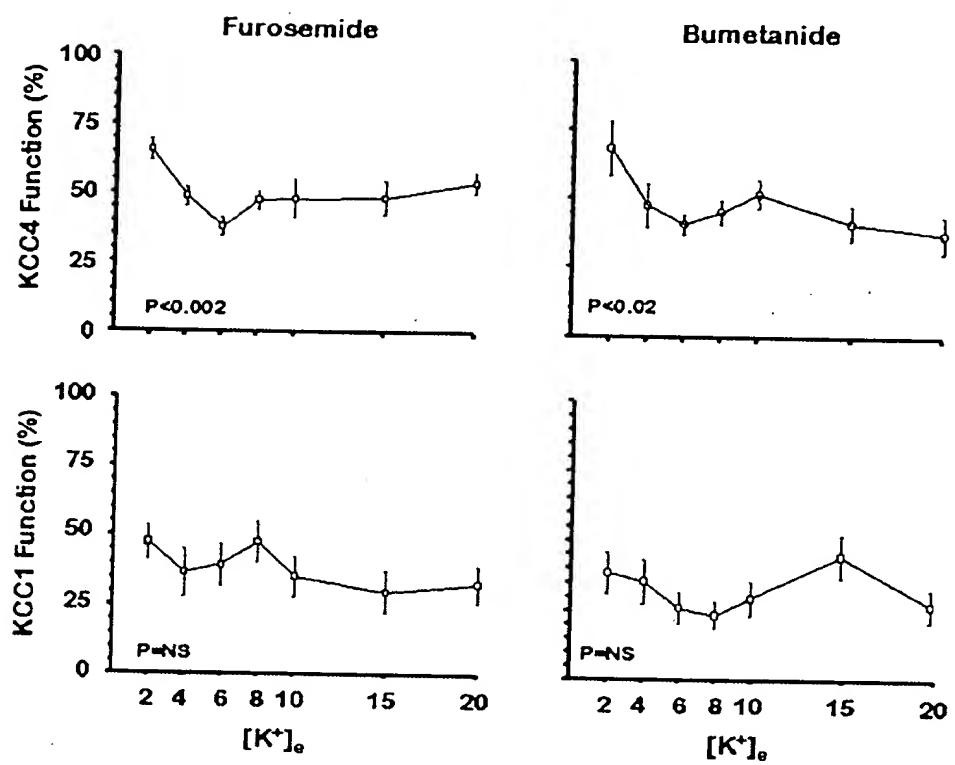
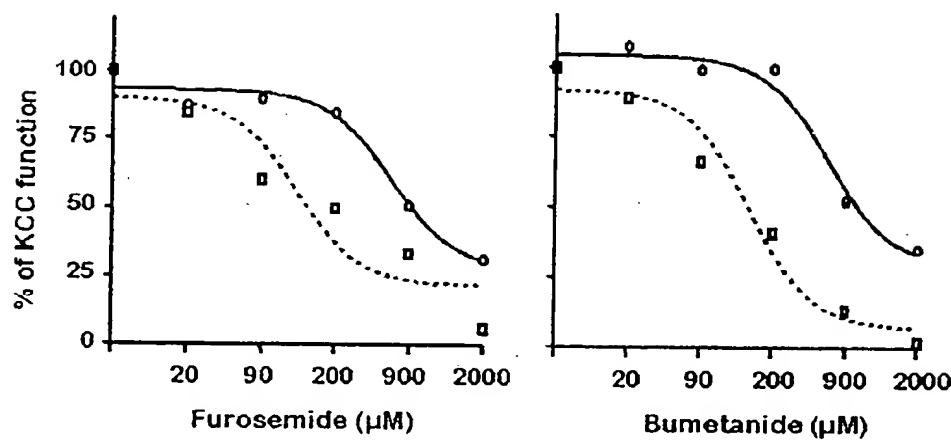
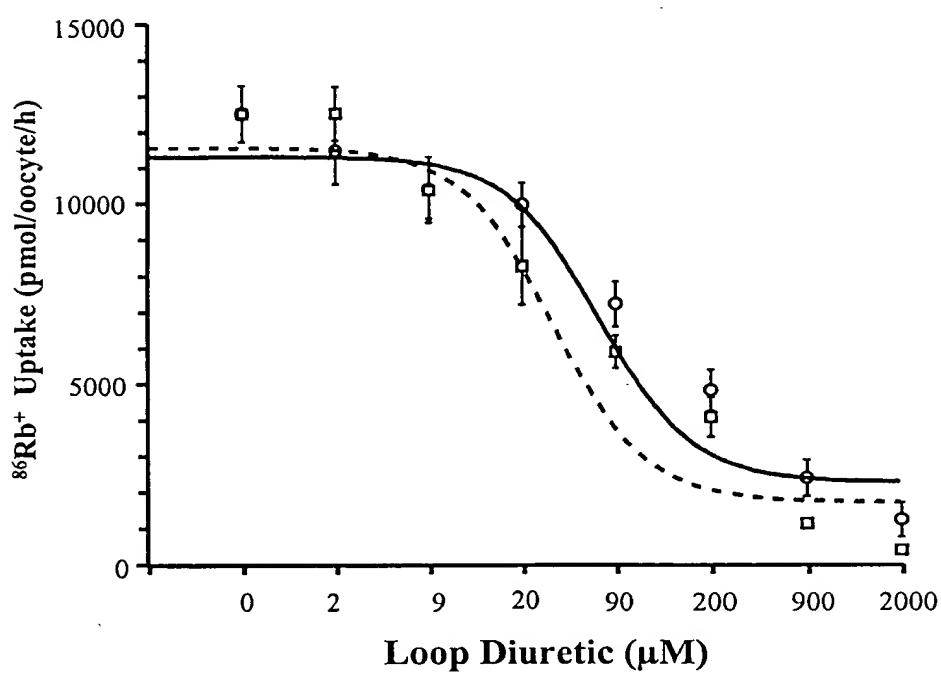


Figure 15



TOP SECRET//SI//C//FOUO

Figure 16



TOP SECRET//SI//FOUO

Figure 17

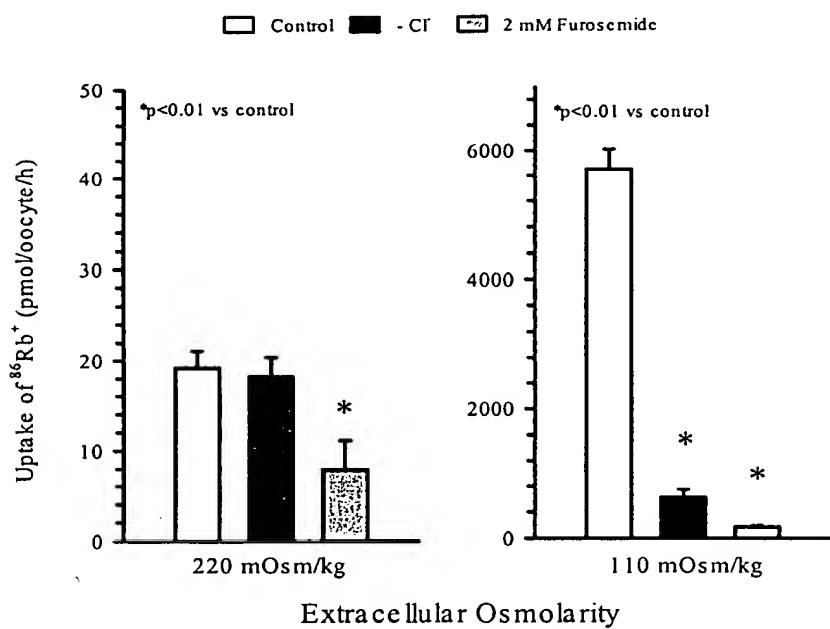
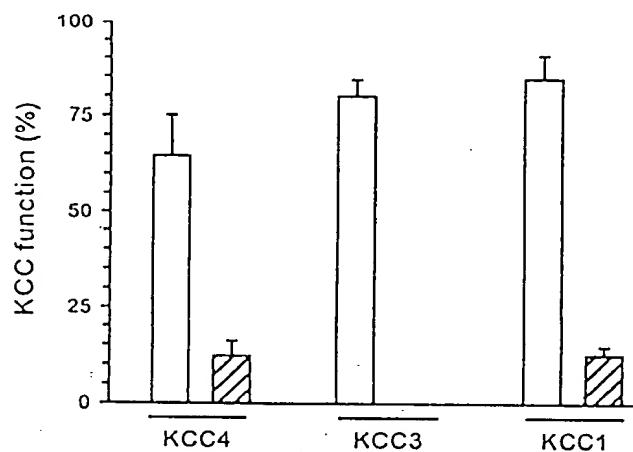
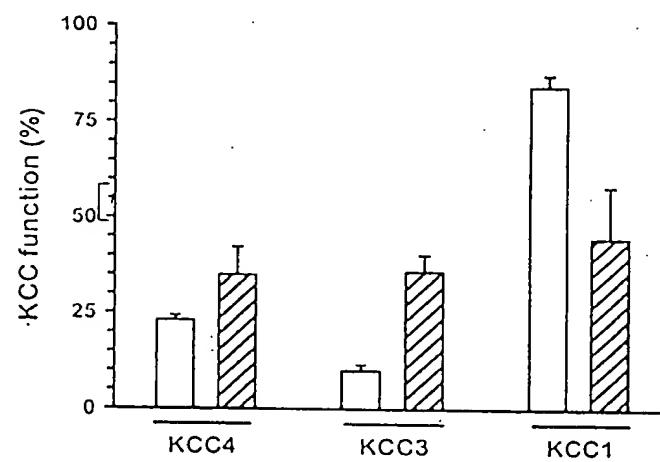


Figure 18

A) DIDS (100 μ M)



B) DIOA (100 μ M)



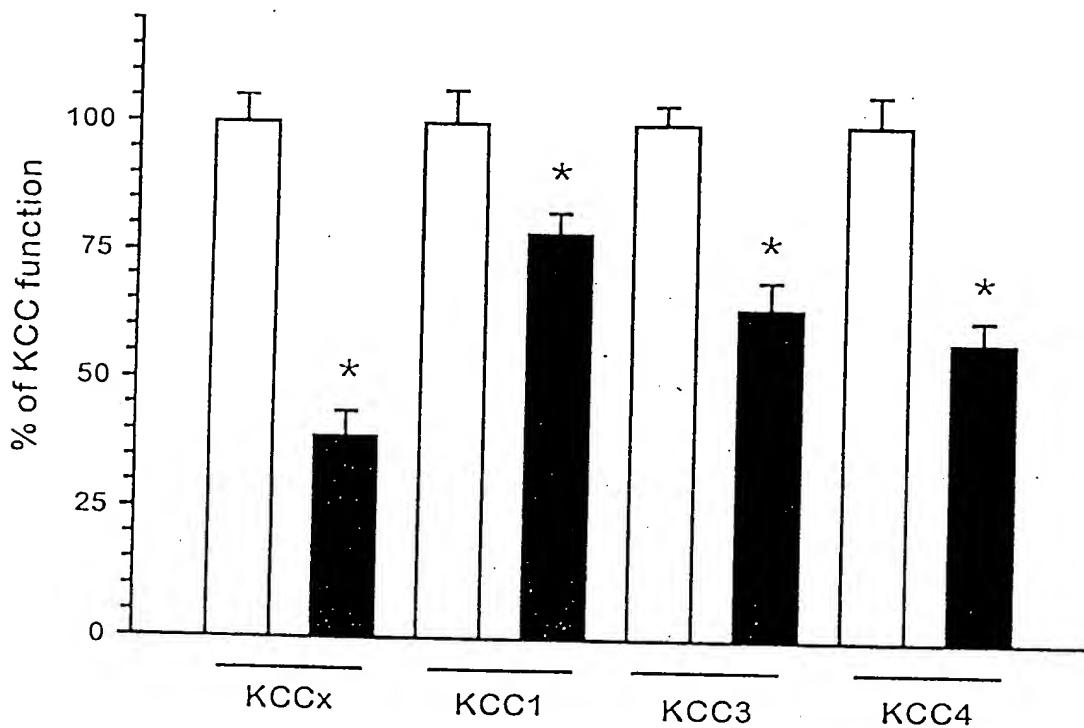


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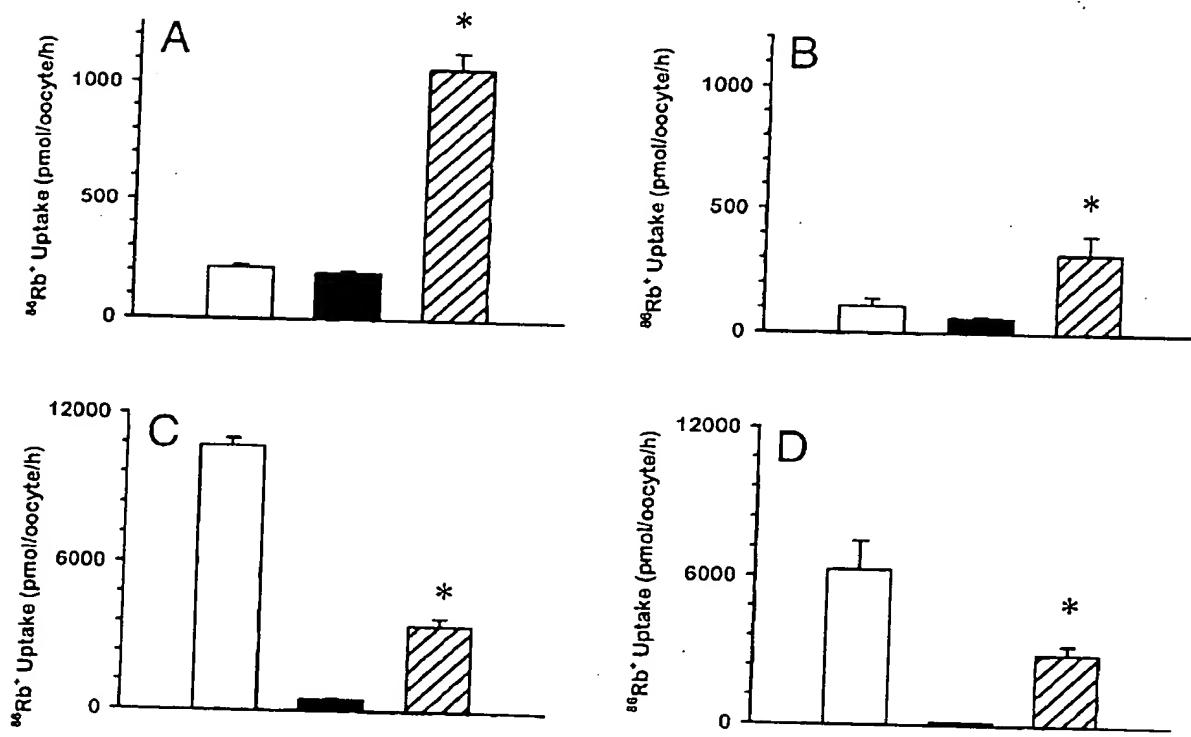


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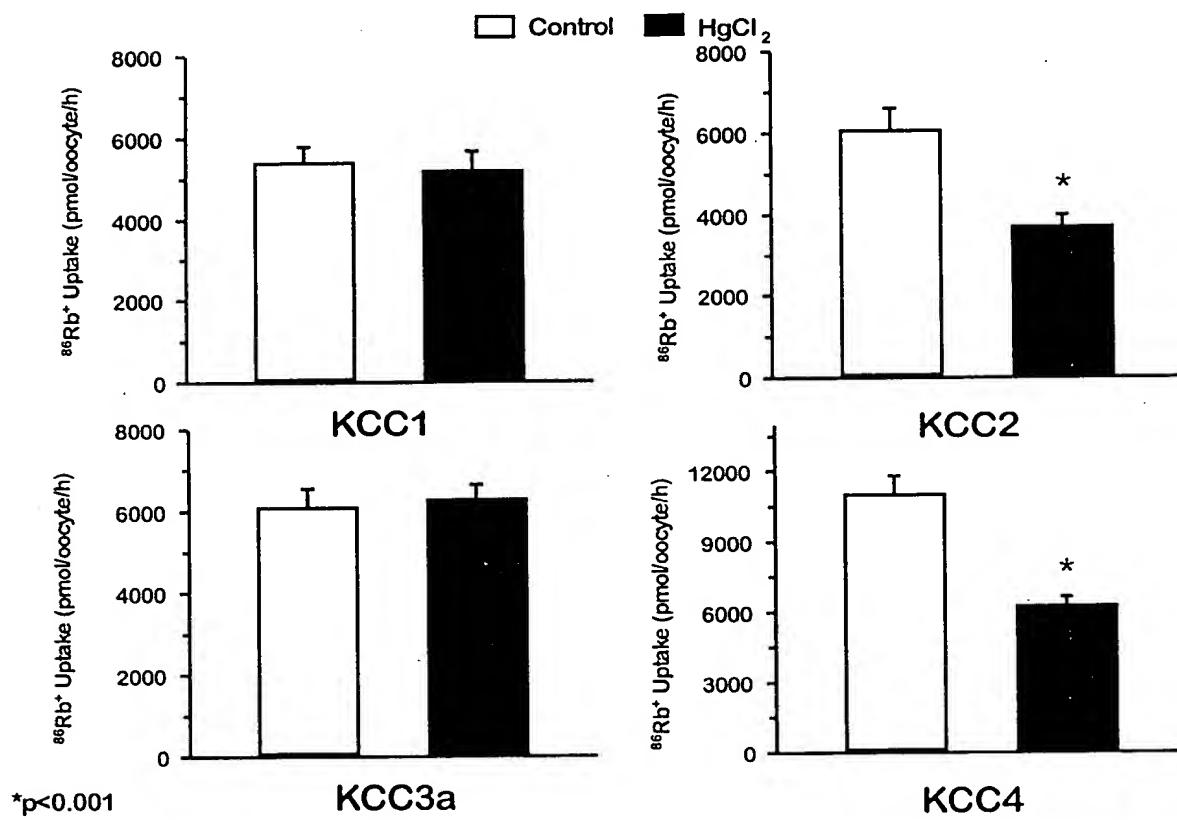


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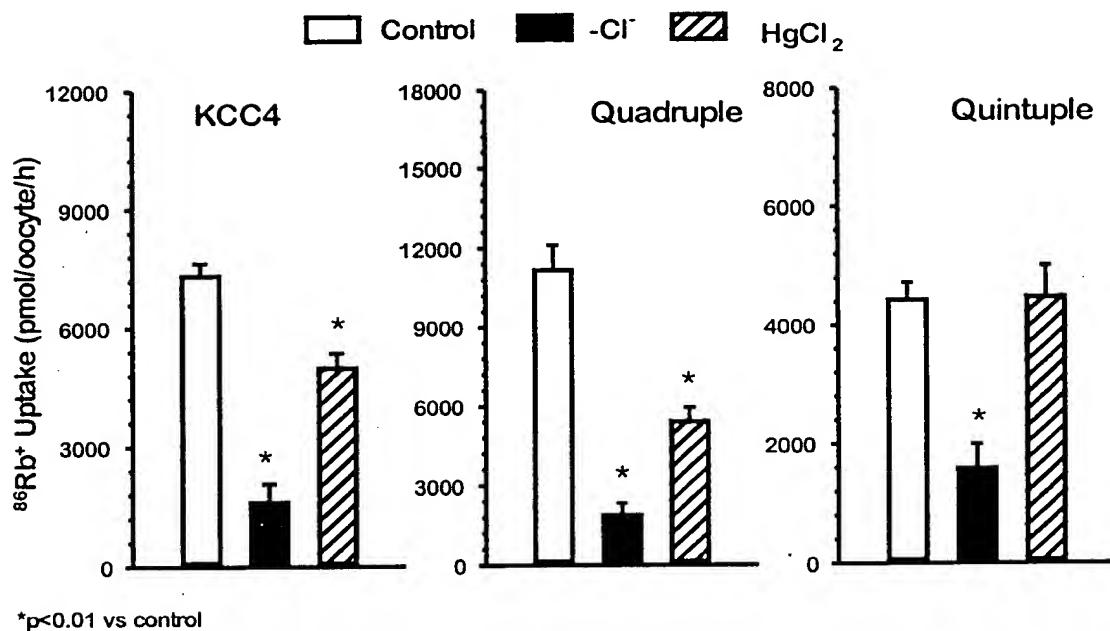


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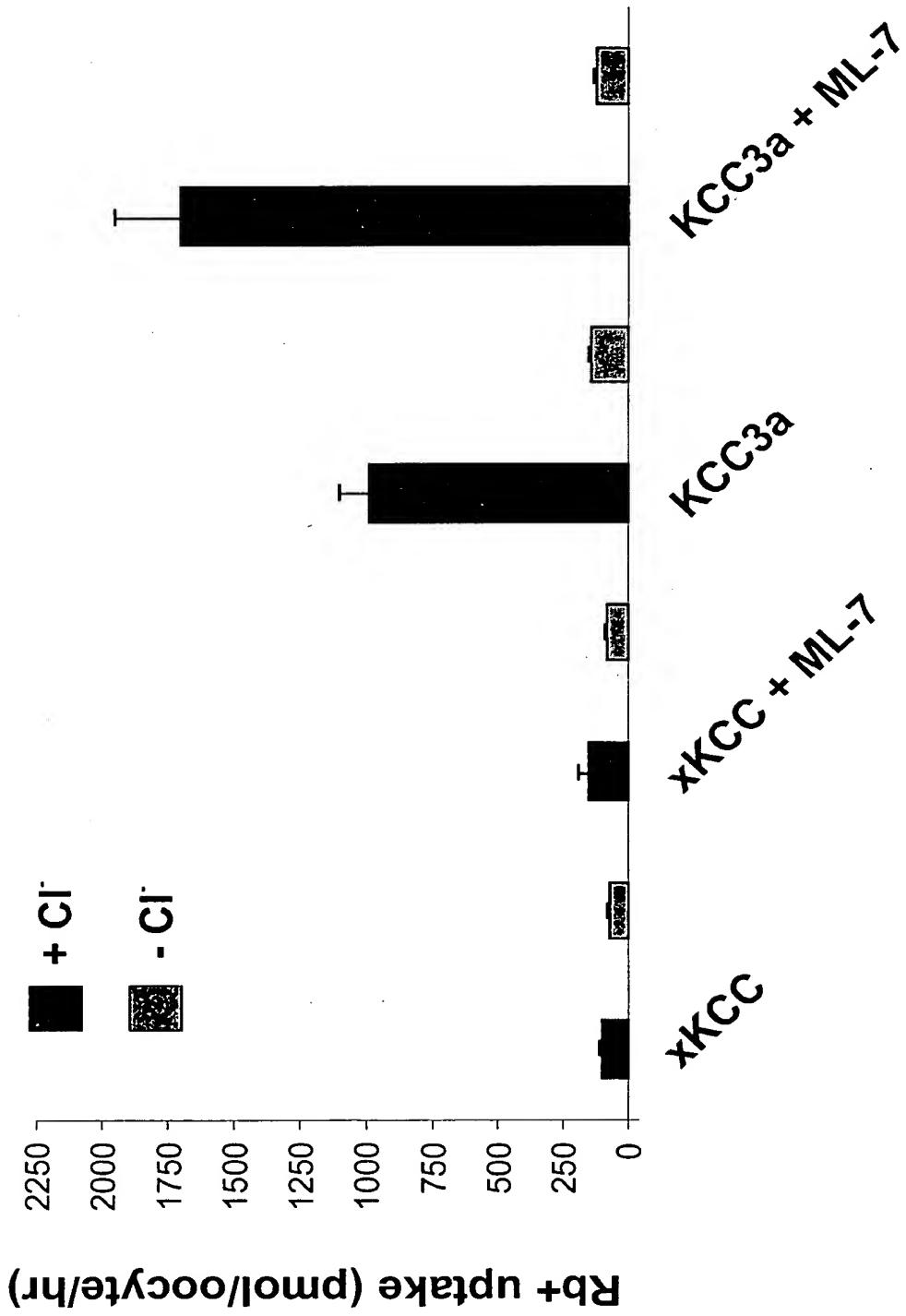


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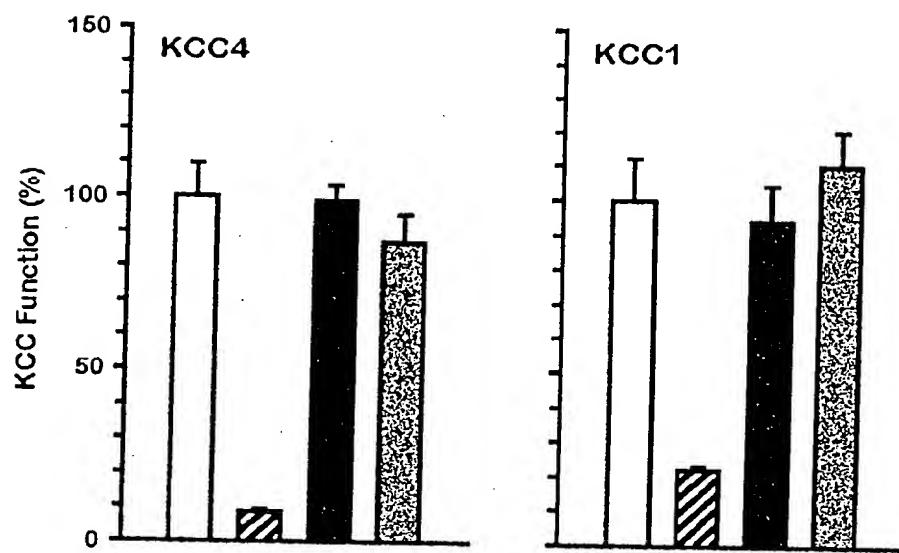
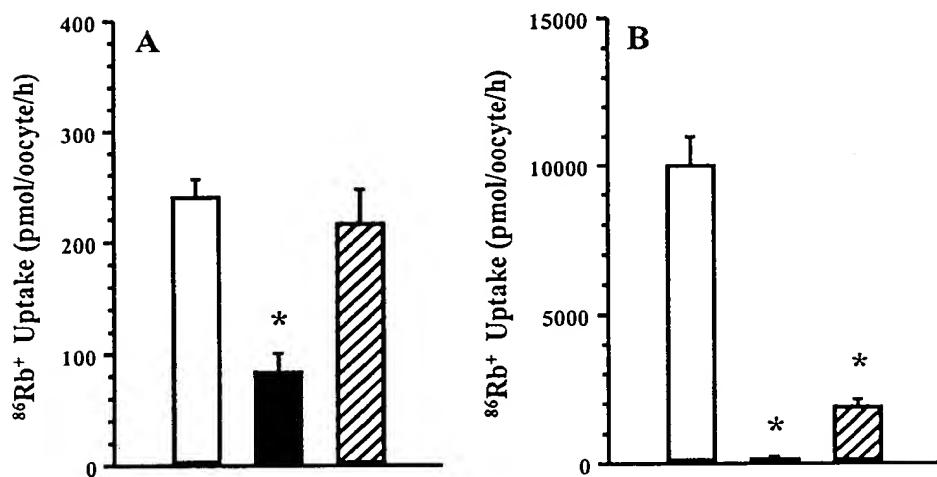


Figure 25



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Figure 26

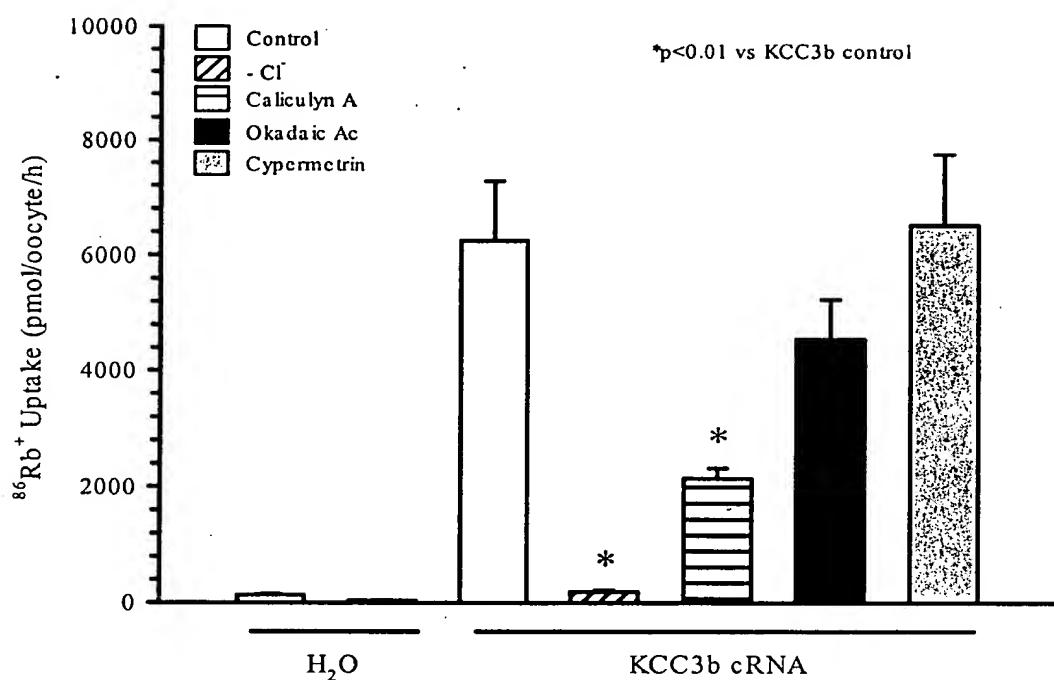
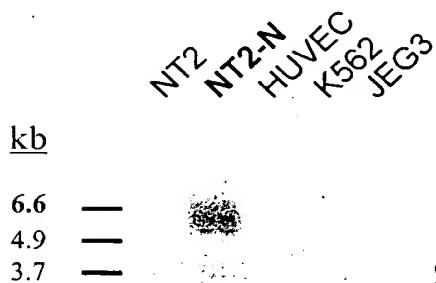
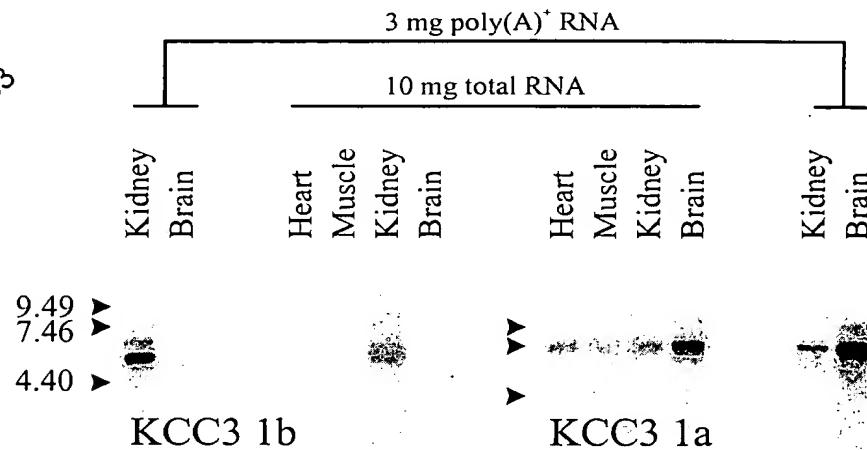


Figure 27

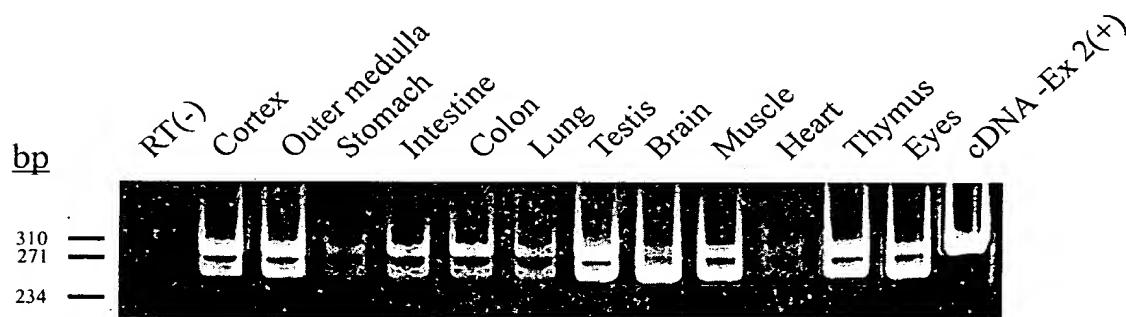
A) KCC2/NT2-N



B) Mouse KCC3



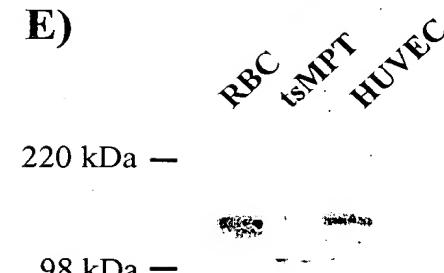
C



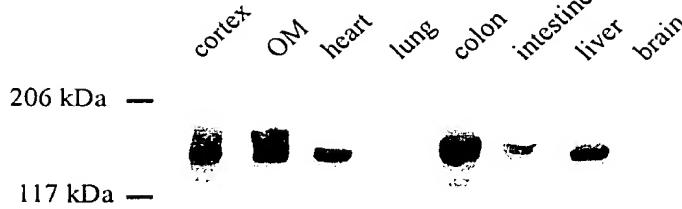
D)



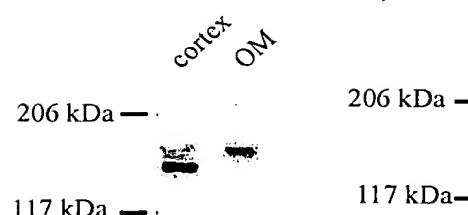
E)



F)



G)

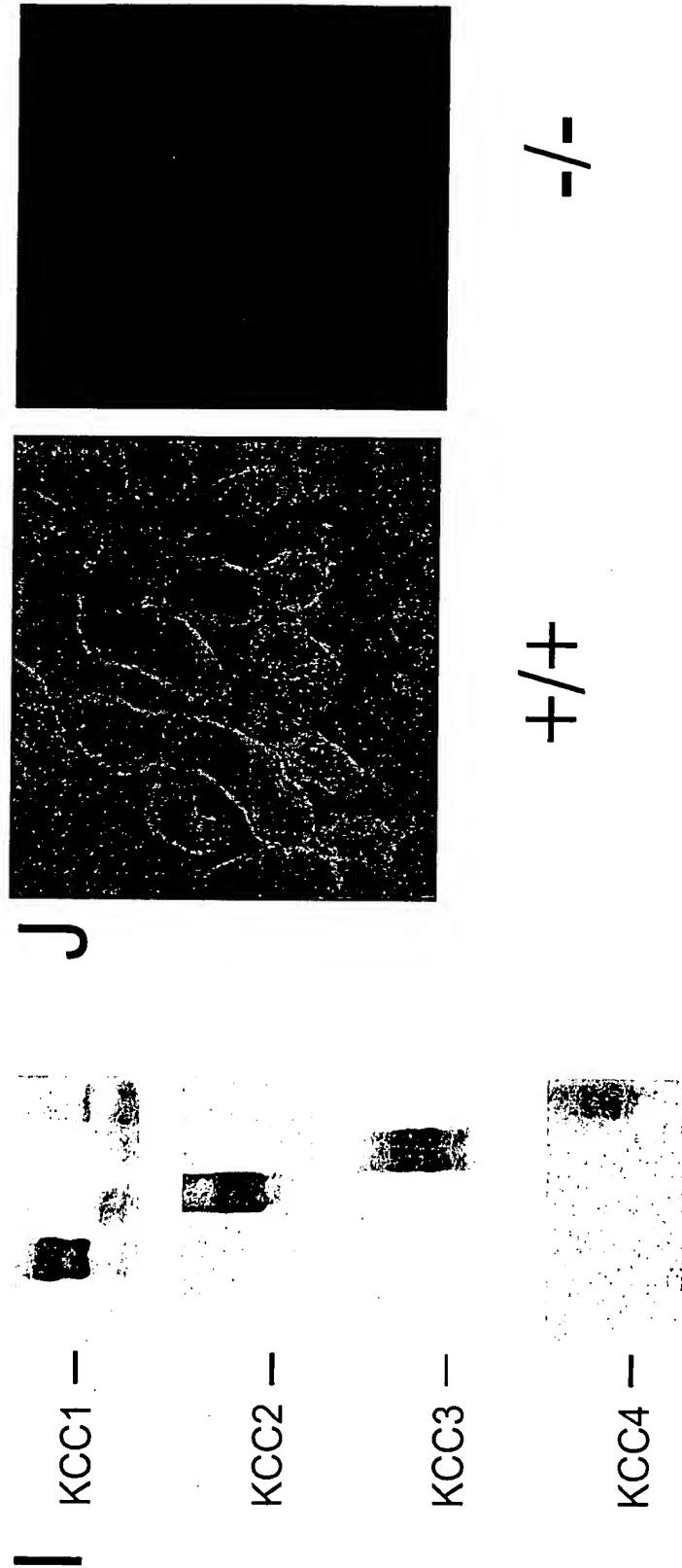


H)

IAB

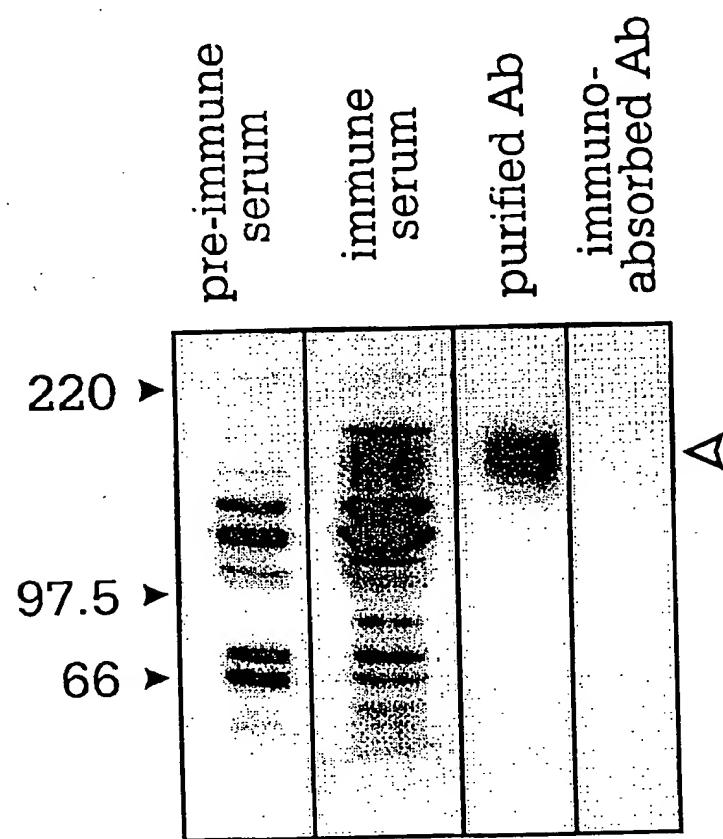
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Figure 27 (cont.)



Title: Purified and Isolated Potassium-Chloride Cotransporter
Nucleic Acids and Polypeptides and Therapeutic and
Screening Methods Using Same
Applicant(s): Mount et al.
Attorney Docket No.: 1242/26/2

Figure 28



1242/26/2

Title: Purified and Isolated Potassium-Chloride Cotransporter
Nucleic Acids and Polypeptides and Therapeutic and
Screening Methods Using Same
Applicant(s): Mount et al.
Attorney Docket No.: 1242/26/2

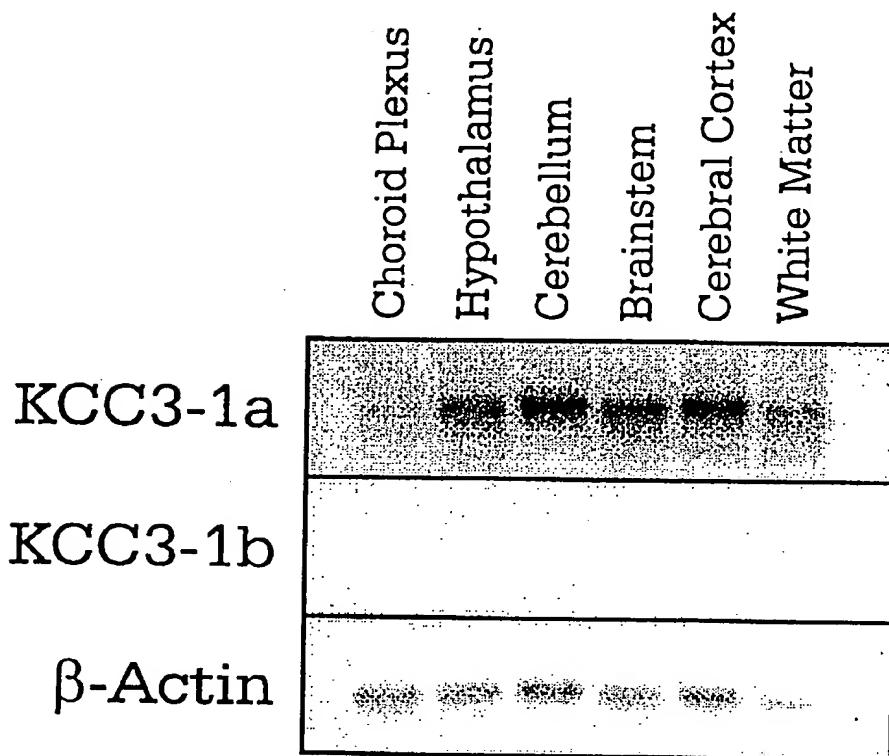
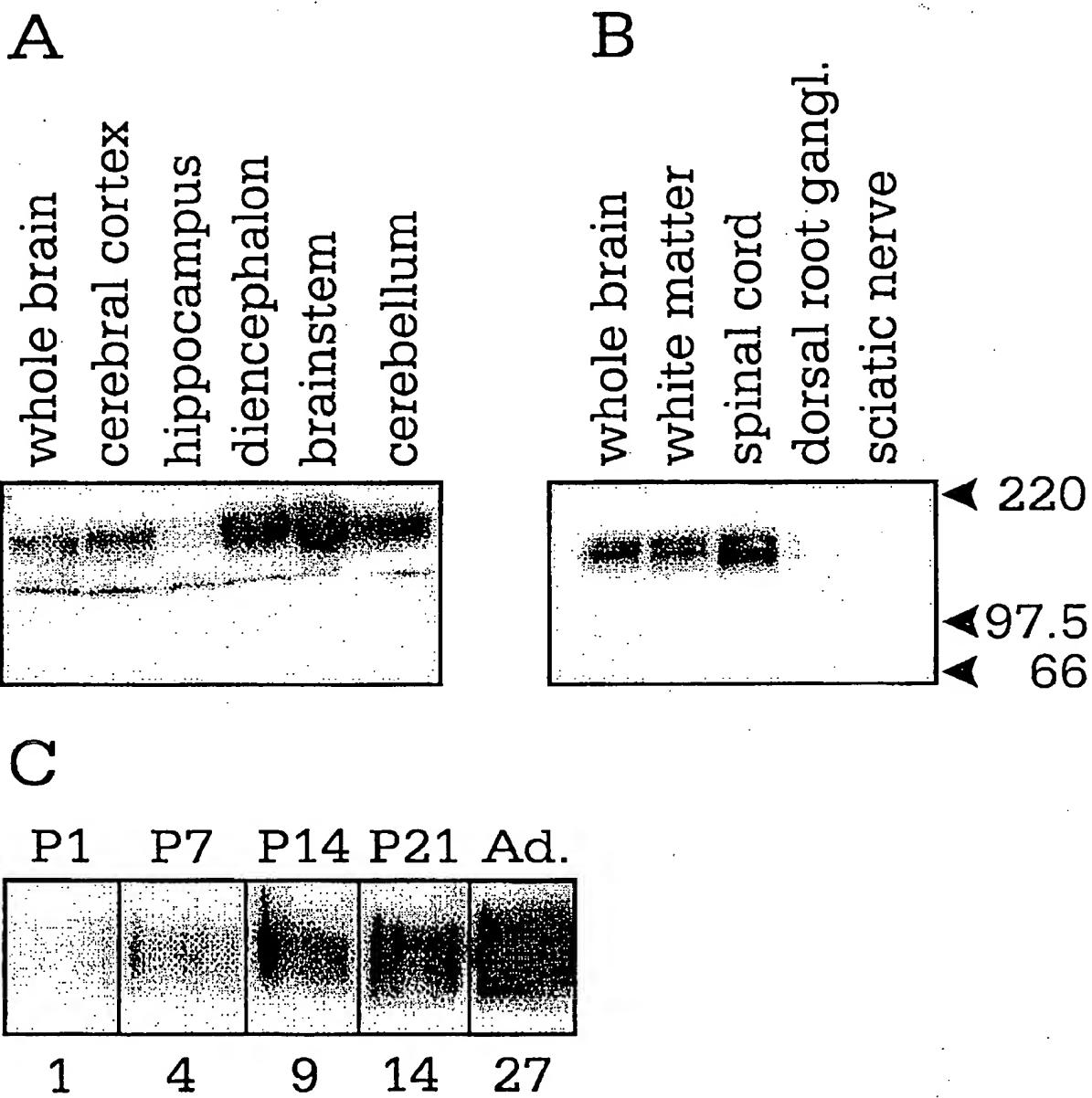


Figure 29



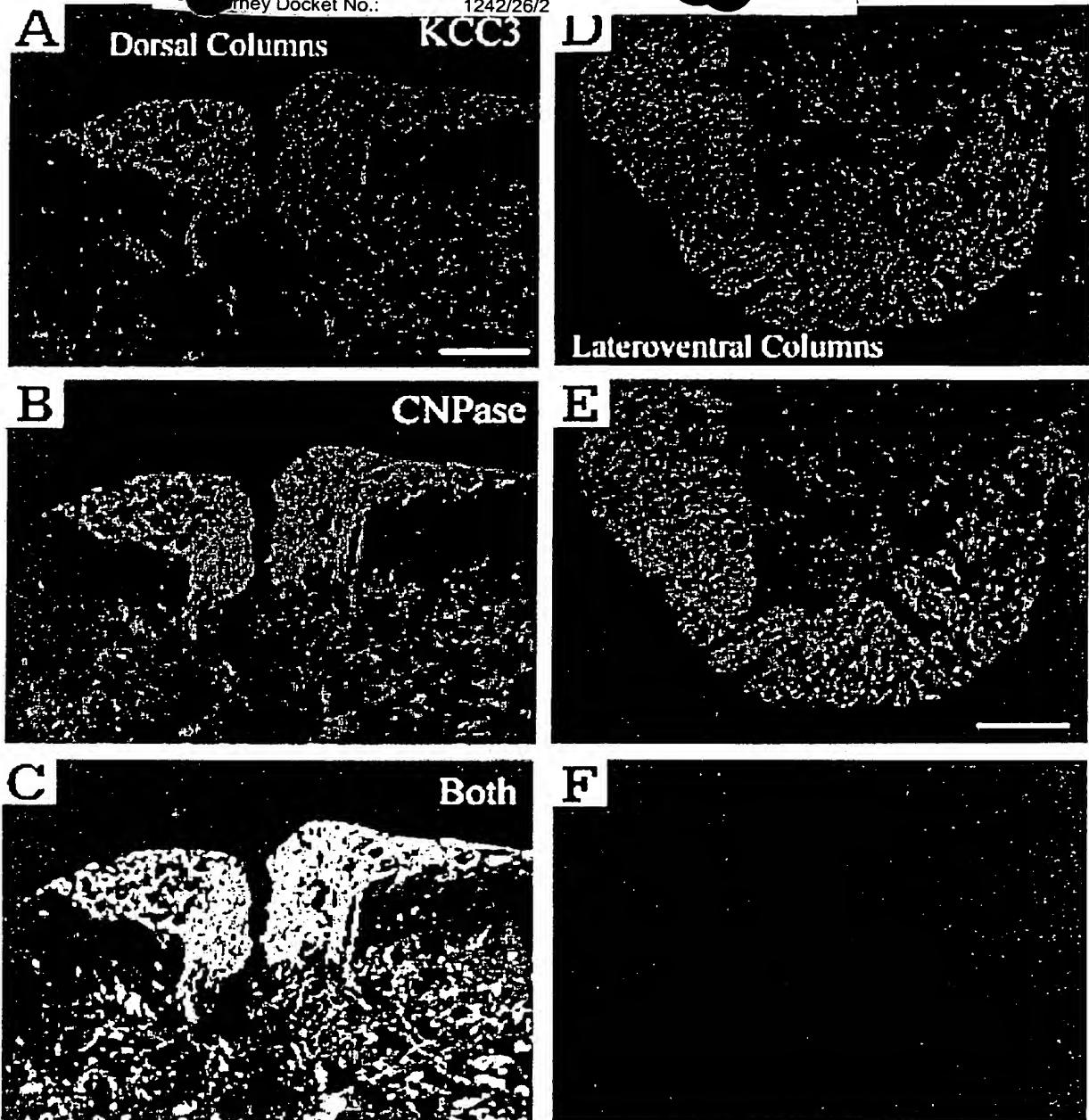


Figure 31

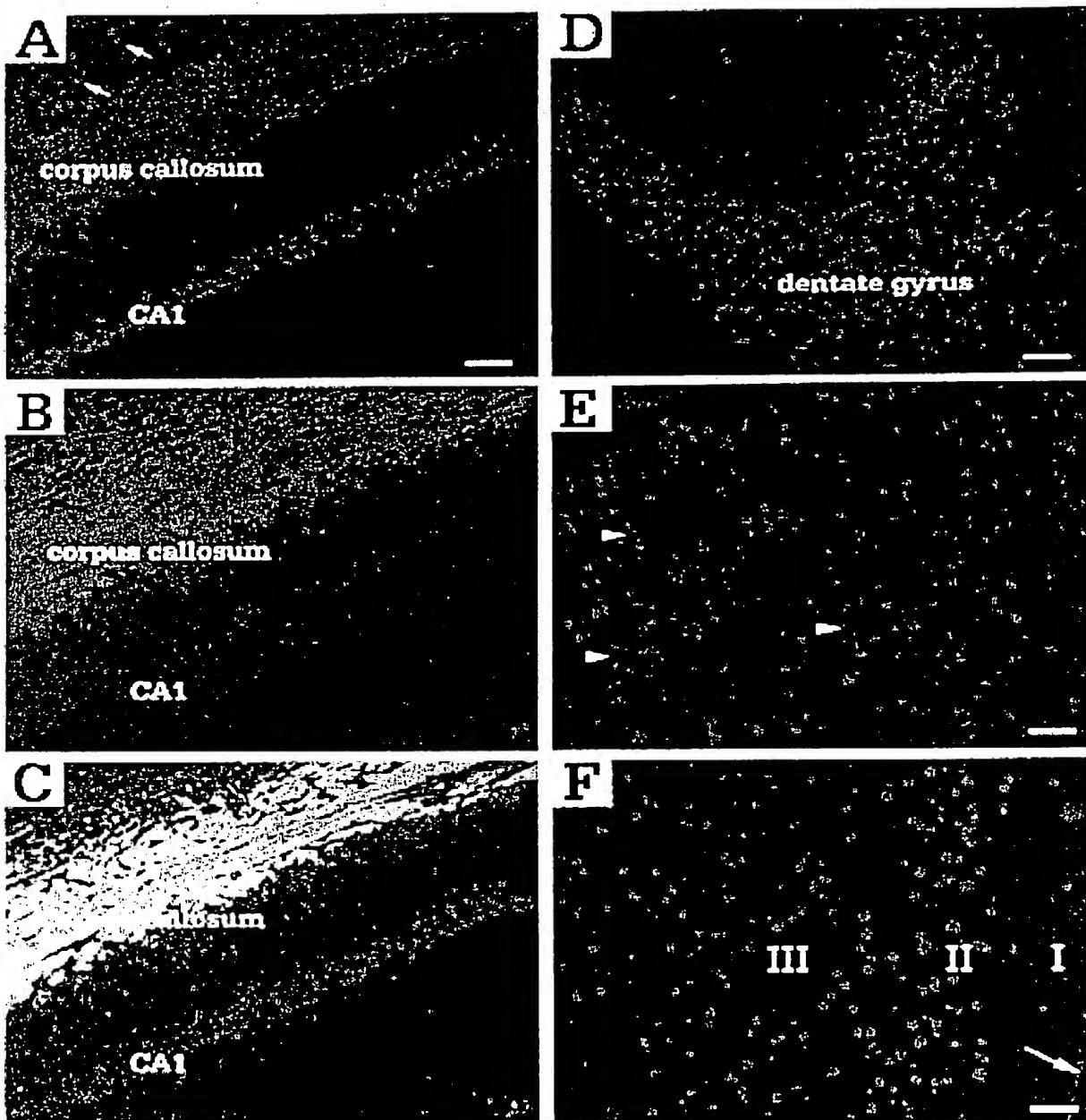
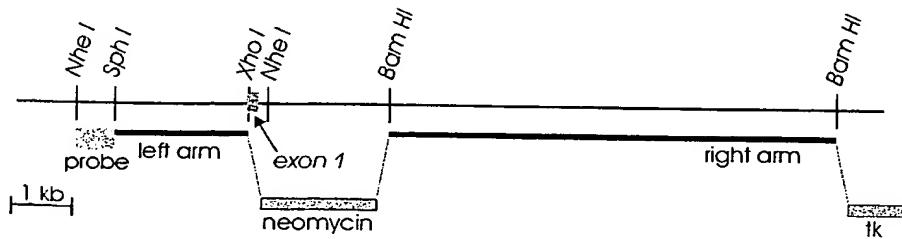


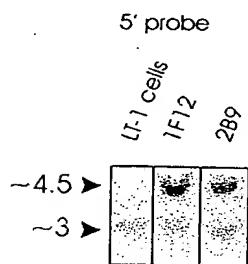
Figure 32

Figure 33

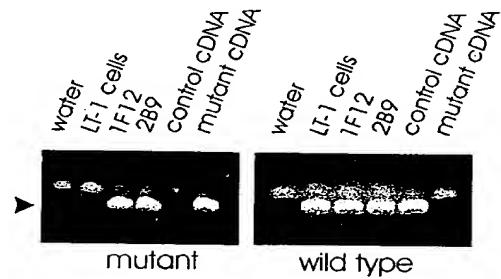
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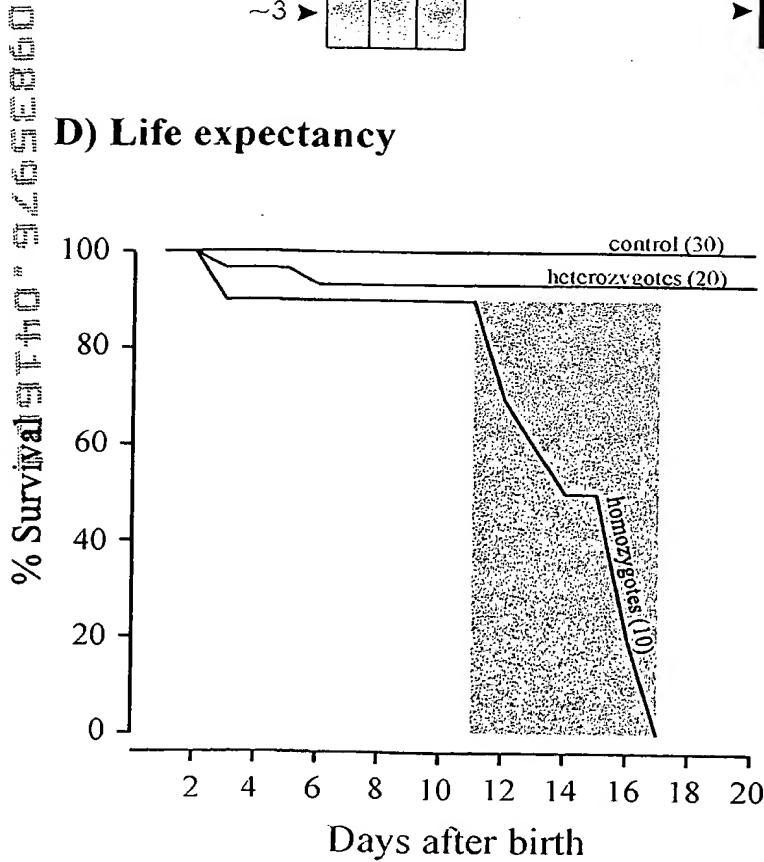
B) Southern



C) PCR



D) Life expectancy



E) Seizure disorder

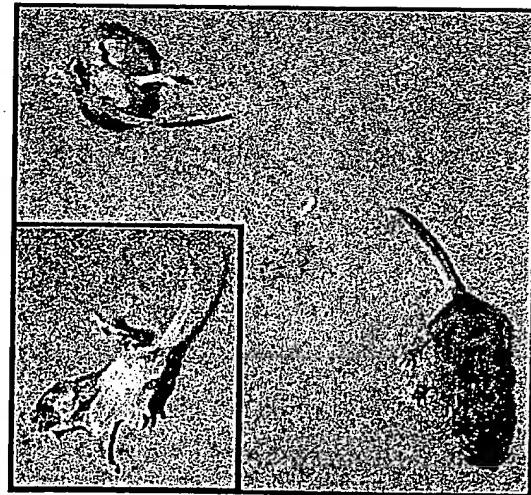
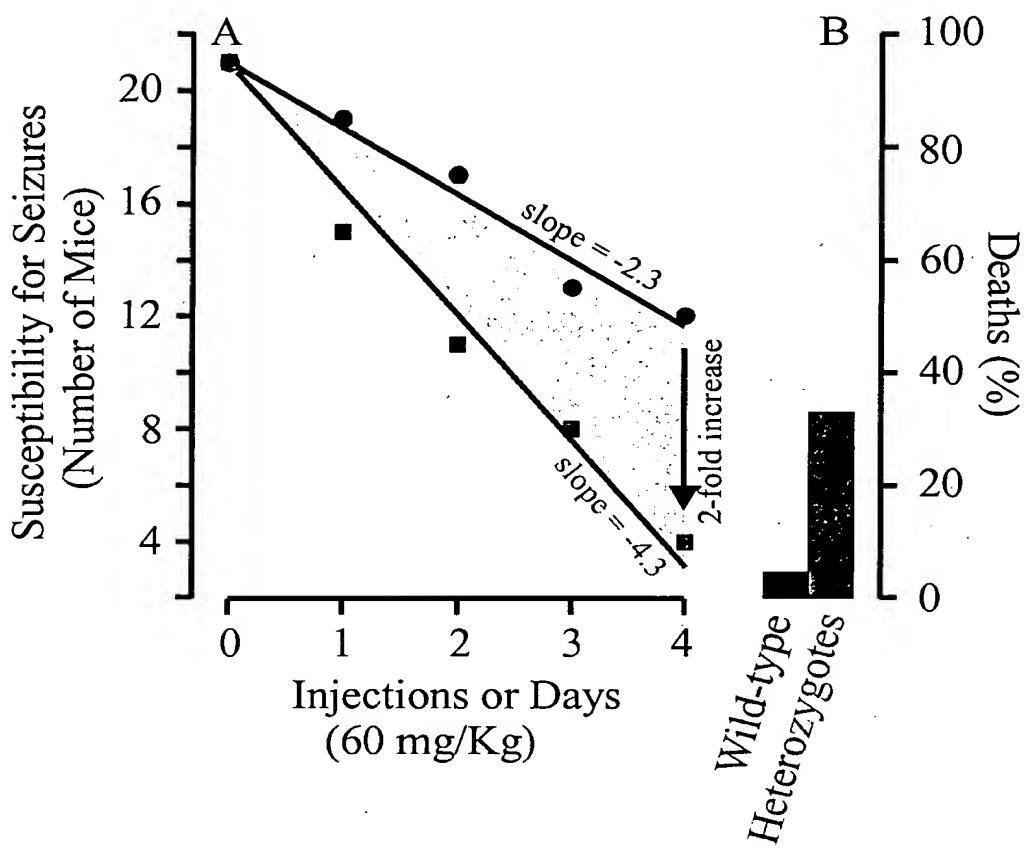


Figure 34



KCC3 Construct

Figure 35

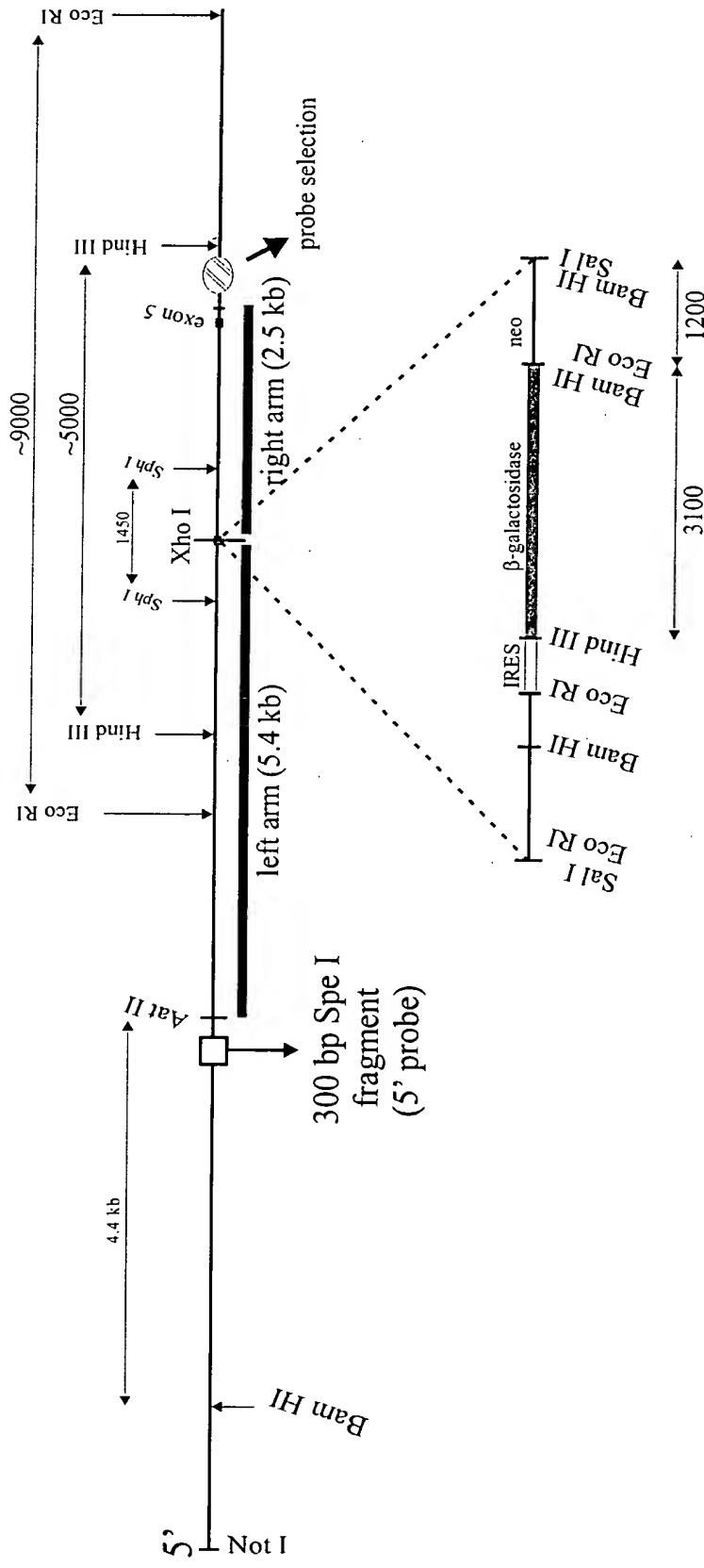


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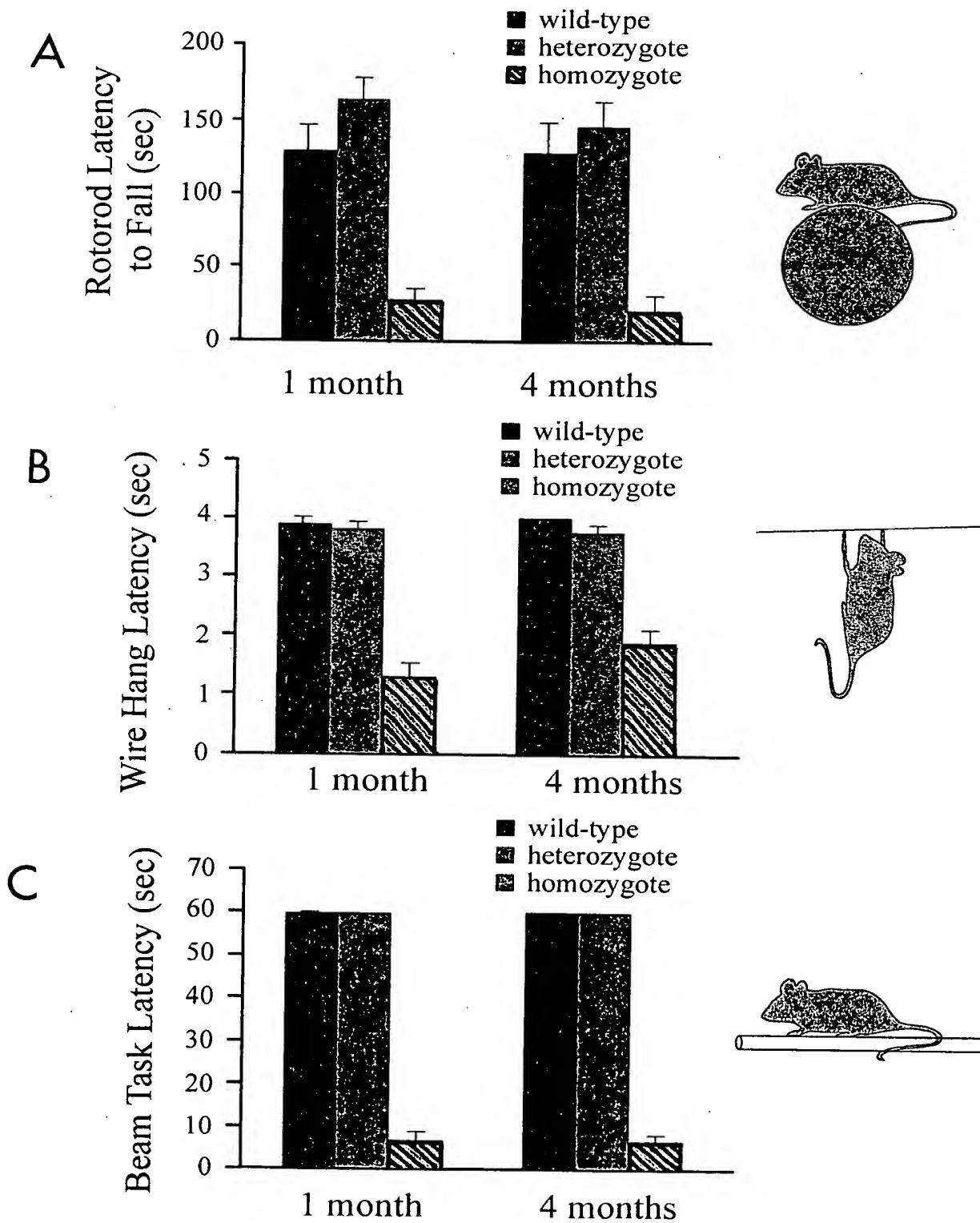


Figure 37

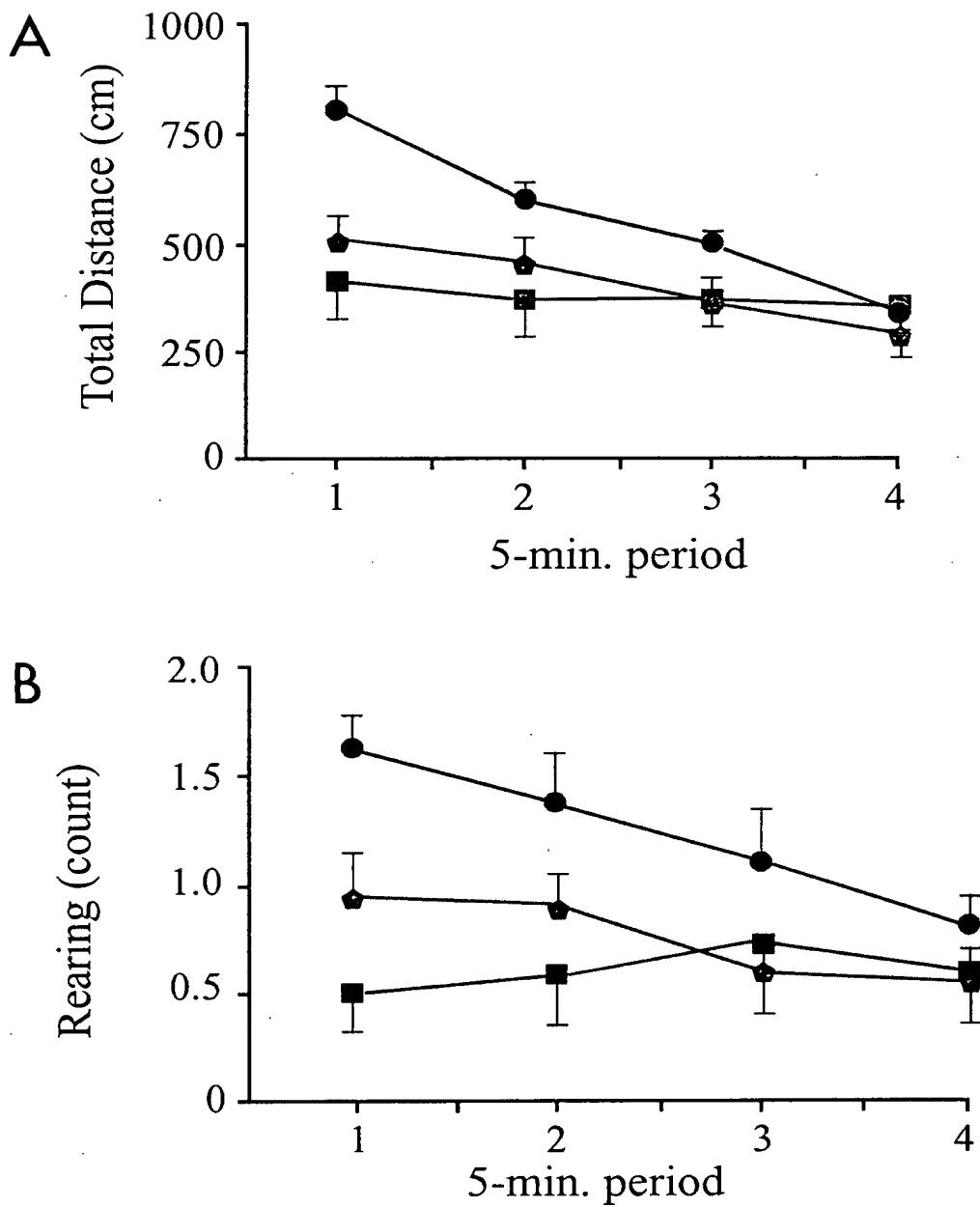


Figure 38

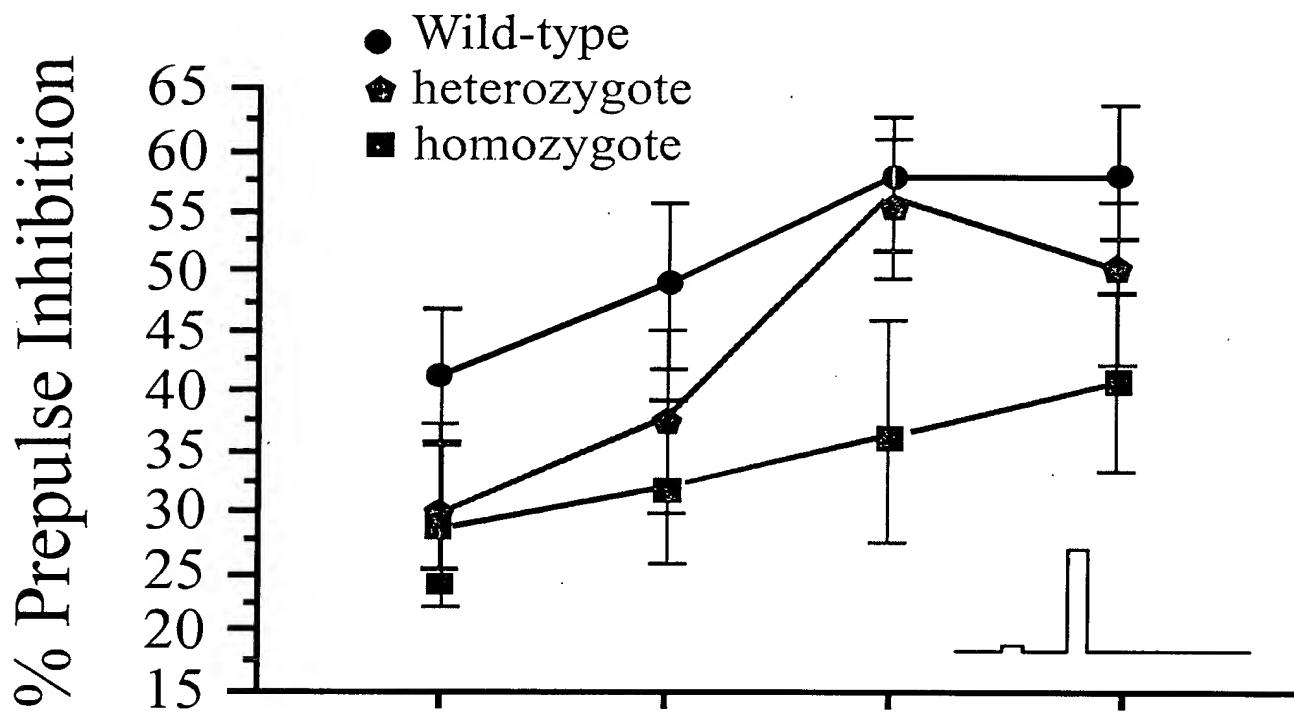


Figure 39

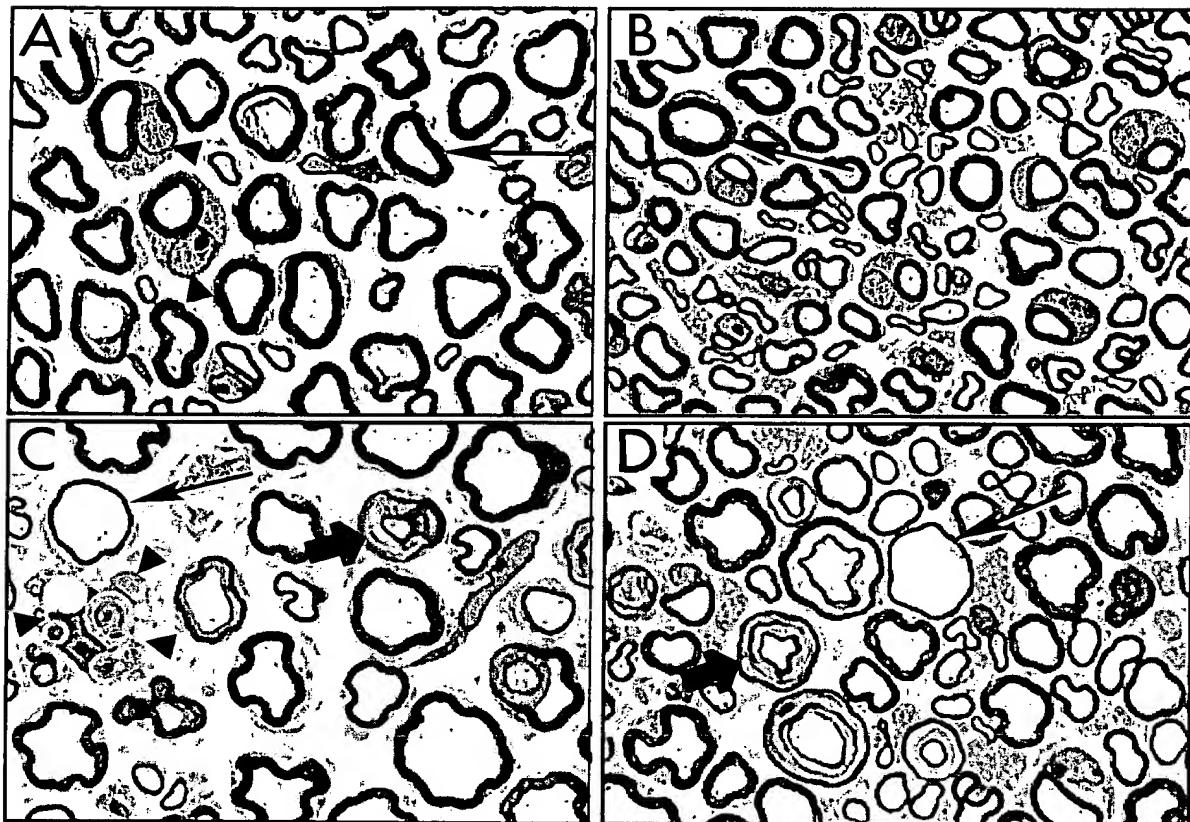
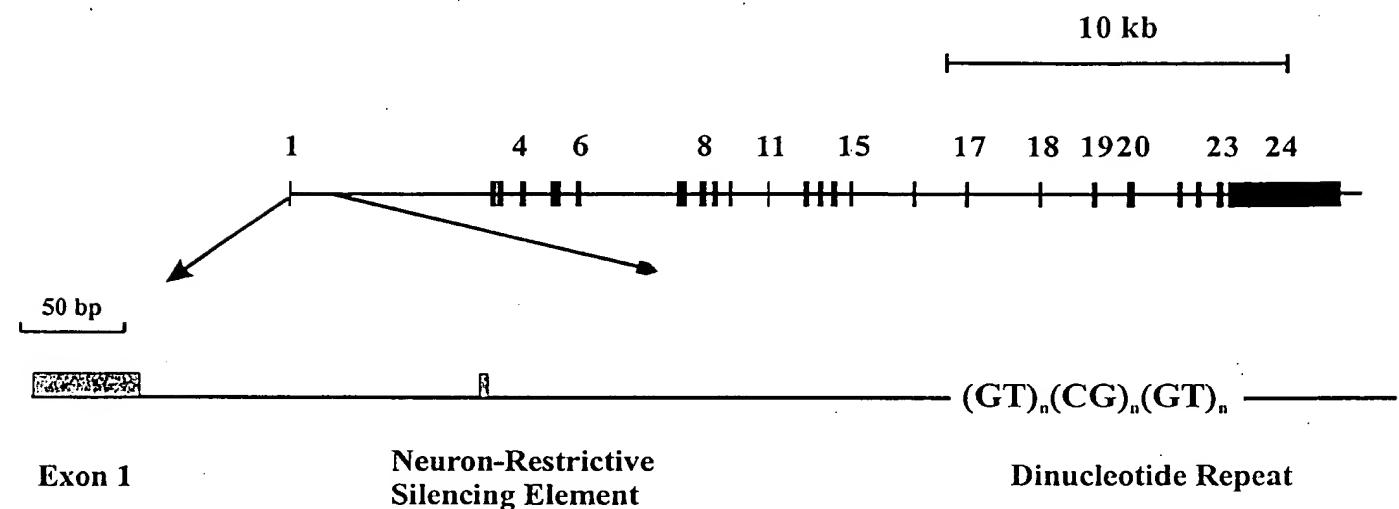


Figure 40



Sequence of the hKCC2 dinucleotide repeat in several individuals:

Sample 1:

Allele A (GT)₁₈ (GC)₇ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 84

Allele B (GT)₁₆ (GC)₅ (AT)₁ (GT)₅ (GC)₁ (GT)₉ / Total = 74

Sample 2:

Allele A (GT)₁₈ (GC)₄ (AT)₂ (GT)₄ (GC)₂ (GT)₁₁ / Total = 82

Sample 3:

Allele A (GT)₁₆ (GC)₆ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 78

Allele B (GT)₁₄ (GC)₅ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 72

Sample 4:

Allele A (GT)₁₉ (GC)₆ (AT)₂ (GT)₄ (GC)₂ (GT)₁₀ / Total = 86

Allele B (GT)₁₇ (GC)₇ (AT)₂ (GT)₄ (GC)₂ (GT)₁₀ / Total = 84

Sample 5:

Allele A (GT)₁₇ (GC)₆ (AT)₂ (GT)₄ (GC)₁ (GT)₁₀ / Total = 80

Allele B (GT)₁₆ (GC)₆ (AT)₂ (GT)₃ (GC)₂ (GT)₁₀ / Total = 78

Sample 6:

Allele A (GT)₁₅ (GC)₆ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 76

Allele B (GT)₁₆ (GC)₅ (GT)₁ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 78

Sample 7:

Allele A (GT)₁₆ (GC)₄ (GT)₁ (AT)₁ (GT)₅ (GC)₁ (GT)₁₀ / Total = 76

Figure 41